



Queen's University  
Library

KINGSTON, ONTARIO



James Fowler  
Kingston, Ont.



# UNIVERSITY COUNCIL.

The Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of elective members.

The Chancellor is elected by the Council, except when two or more candidates are nominated, in which case the election is by registered graduates and alumni. He holds office for three years, and, as highest officer of the University, presides at meetings of the Council and Convocation, and at statutory meetings of Senate. In his absence he is represented by the Vice-Chancellor.

Of the elective members eight retire annually, except in every sixth year, when ten retire. Successors are elected by registered graduates and alumni. Retiring members may be re-elected.

The Council has power to elect five trustees (one trustee retiring annually); to discuss all questions relating to the College and its welfare; to make representations of its views to the Senate or the Board of Trustees; to decide on proposals for affiliation and to arrange all matters pertaining to the installation of the Chancellor, to its own meetings and business, the meetings and proceedings of Convocation, and the fees for membership, registration and voting.

Convocation for the conferring of degrees, etc., will be held upon Wednesday, April 29th, 1903.

## ELECTIVE MEMBERS IN THE ORDER OF THEIR RETIRING.

Retire 1907	{	A. G. FARRELL, B.A. ....	Smith's Falls.
		W. L. GRANT, M.A. ....	Upper Canada College.
		A. B. CUNNINGHAM, B.A. ....	Kingston.
		H. M. MOWAT, B.A., LL.B. ....	Toronto.
		H. R. DUFF, M.D. ....	Kingston.
		V. H. MOORE, M.D. ....	Brockville.
		GEO. BELL, B.A. ....	Toronto.
Retire 1906	{	C. F. HAMILTON, M.A. ....	Toronto.
		R. S. MINNES, M.A. ....	Ottawa.
		REV. J. HAY, M.A., B.D. ....	Renfrew.
		P. C. MCGREGOR, B.A., LL.D. ....	Almonte.
		T. G. MARQUIS, B.A. ....	Brantford.
		JAS. DOUGLAS, B.A., LL.D. ....	New York.
		E. PEACOCK, M.A. ....	Toronto.
Retire 1905	{	J. MCD. MOWAT, B.A. ....	Kingston.
		JUDGE MCCALLUM, M.A. ....	Gore Bay.
		REV. J. J. WRIGHT, B.A. ....	White Horse, Yukon.
		REV. J. CUMBERLAND, M.A. ....	Stella.
		REV. J. D. BOYD, B.A. ....	Kingston.
		GORDON W. MYLKS, M.D. ....	Kingston.
		R. K. KILBORN, M.D. ....	Kingston.
Retire 1905	{	J. JONES BELL, M.A. ....	Toronto.
		ELIZA S. FITZGERALD, M.A. ....	Cornwall.
		LENNOX IRVING, B. A. ....	Pembroke.

Retire 1904	{	JOHN MARSHALL, M.A . . . . .	Kingston.
		W. A. LOGIE, M.A., LL.B . . . . .	Hamilton.
		REV. JAMES CARMICHAEL, D.D. . . . .	King.
		JUDGE FRALECK, B.A. . . . .	Belleville.
		R. H. COWLEY, M.A. . . . .	Ottawa.
		REV. W. W. PECK, M.A., LL.B. . . . .	Napanee.
		R. S. O'LOUGHLIN, M.A. . . . .	New York.
Retire 1903	{	J. R. LAVELL, B.A., M.P. . . . .	Smith's Falls.
		W. F. NICKLE, B.A. . . . .	Kingston.
		REV. N. MACPHERSON, M.A., B.D . . . .	Hamilton.
		REV. T. J. THOMPSON, M.A., B.D . . . .	Belleville.
		REV. D. STRACHAN, B. A. . . . .	Brockville.
		J. J. MACLENNAN, B.A. . . . .	Toronto.
		REV. R. LAIRD, M.A . . . . .	Brockville.
Retire 1902	{	REV. JAS. BINNIE, M.A., B.D. . . . .	Macdonald's Corners
		REV. R. J. HUTCHEON, M.A. . . . .	Ottawa.
		C. McDOWELL, B.A . . . . .	Renfrew.
		FRANCIS KING, M.A. . . . .	Kingston.
		R. V. ROGERS, B.A., LL.D . . . . .	Kingston
		H. A. CALVIN, M.P. . . . .	Kingston.
		REV. D. McTAVISH, D. Sc. . . . .	Toronto.
Retire 1902	{	J. M. FARRELL, B A . . . . .	Kingston.
		REV. J. K. MACMORINE, M.A. . . . .	Kingston.
		E. B. ECHLIN, B.A., M.D . . . . .	Ottawa.
		GEORGE W. MITCHELL, M.A. . . . .	Cobourg.
		REV. D. J. McLEAN, B.A. . . . .	Arnprior.

**CHANCELLOR :**

SIR SANDFORD FLEMING, C.E., K.C.M.G., LL.D.

**PRINCIPAL AND VICE-CHANCELLOR :**

VERY REVEREND GEORGE MONRO GRANT, M.A., D.D., LL.D.

**VICE-PRINCIPAL :**

JOHN WATSON, M.A., LL.D.

**REGISTRAR :**

GEORGE Y. CHOWN, B.A.

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**OFFICERS OF INSTRUCTION :**

*I.—In Theology.*

The Principal	Primarius Professor of Divinity.
Rev. D. Ross, D.D.	Professor of Apologetics and New Testament Criticism.
Rev. W. G. Jordan, B.A., D.D.	Professor of Hebrew and Old Testament Criticism.
Rev. S. McComb, M.A., (Oxon)	Professor of Church History and History of Dogma.
Rev. John Thompson, D.D.	Lecturer on Pastoral Theology.
Rev. James Carruthers.	“Watkins” Lecturer on Elocution.

*II.—In Arts.*

Nathan F. Dupuis, M. A., F. B. S., Edin.	Professor of Mathematics.
Rev. George D. Ferguson, B.A.	Professor of History.
John Watson, M.A., LL.D.	Professor of Moral Philosophy.
D. H. Marshall, M.A., F.R.S.E.	Professor of Physics.
James Cappon, M.A.	Professor of English Language and Literature.
John Macgillivray, Ph.D. (Leipsic).	Professor of Modern Languages.
S. W. Dyde, M.A., D.Sc., LL.D.	Professor of Mental Philosophy.
Rev. John Macnaughton, M.A.	Professor of Greek.

Rev. Jas. Fowler, M.A., F.R.S.C.	“The John Roberts Allan” Professor of Botany.
Adam Shortt, M.A.	“The Sir John A. Macdonald” Professor of Political and Economic Science.
A. P. Knight, M.A., M.D.	“The John Roberts” Professor of Animal Biology and Physiology.
W. G. Jordan, B.A., D.D.	Professor of Hebrew.
W. J. Pike, B.A., (Cantab).	Professor of Latin.
Rev. Alex. B. Nicholson, B.A.	Assistant Professor of Latin and Greek and Lecturer on Comparative Philology and Sanscrit.
W. G. Fraser, M. A.	“The William Nickle” Assistant to the Professor of Mathematics.
John Sharp, M.A.	Tutor in English and Philosophy.
Jas. Wallace, M.A.	“The Robert Waddell” Tutor in Hebrew.

### *III.—In Practical Science.*

Nathan F. Dupuis, M.A., F.B.S., F.R.S.C.	Professor of Mathematics and Mechanism & Dean of Faculty.
Wm. L. Goodwin, B.Sc. (Lond.) D.Sc. (Edin.) F.R.S.C., Director School of Mining	Professor of Chemistry.
D. H. Marshall, M.A., F.R.S.E.	Professor of Physics.
William Nicol, M.A.	Professor of Mineralogy and Assaying.
Willet G. Miller, B.A.	Professor of Geology and Petrography.
Rev. Jas. Fowler, M.A., F.R.S.C.	Professor of Botany.
A. P. Knight, M.A., M.D.	Professor of Animal Biology and Physiology.
L. W. Gill, B.Sc.	Acting Professor of General and Electrical Engineering.
Stafford Kirkpatrick, M.Sc.	Acting Professor of Mining Engineering and Metallurgy.
John Waddell, B.A., D.Sc., Ph.D.	Lecturer on Chemistry.
N. R. Carmichael, M.A.	Associate Professor of Physics.
F. R. Sharpe, B.A., (Cantab).	Lecturer on Applied Mathematics.
C. E. Wrenshall	Lecturer on Drawing.
Capt. J. L. Bogart, R.M.C.	Lecturer on Surveying.
.....	Demonstrator in Experimental Physics on “The Robert Waddell” Foundation.

# IV.—*In Medicine.*

## *Medicine.*

- Fife Fowler, M.D., L.R.S.C., Edin. Emeritus Professor of the Principles and Practice of Medicine, Dean of the Faculty.  
 James Third, M.D. . . . . Professor of Practice of Medicine.  
 John Herald, M.A., M.D. . . . . Professor of Clinical Medicine and Dermatology, Secretary of the Faculty.  
 James W. Campbell, M.D. . . . . Professor of Materia Medica and Therapeutics.

## *Surgery.*

- Hon. Michael Sullivan, M.D.. . . . Professor of the Principles and Practice of Surgery.  
 D. E. Mundell, B.A., M.D. . . . . Assistant.  
 W. G. Anglin, M.D., M.R.C.S., F.O.S . . . . . Professor of Clinical Surgery.

## *Anatomy.*

- Edward Ryan, B.A., M.D. . . . . Professor of Systematic Anatomy.  
 D. E. Mundell, B.A., M.D. . . . . Professor of Surgical Anatomy.  
 A. W. Richardson, B.A., M.D., G. W. Mylks, M.D., and A. E. Ross, B.A., M.D. . . . . Demonstrators of Anatomy.

## *Obstetrics and Gynæcology.*

- R. W. Garrett, M.A., M.D. . . . . Professor.  
 Isaac Wood, M.A., M.D., M.R.C.S., Eng., F.O.S., Edin. . . . . Assistant Professor and Lecturer in Pædiatrics.

## *Sanitary Science.*

- W. T. Connell, M.D., M.R.C.S., L.R.C.P.

## *Pathology and Bacteriology.*

- W. T. Connell, M.D., M.R.C.S., L.R.C.P.  
 A. R. B. Williamson, M.A., M.D., M.R.C.S., L.R.C.P. . . . . Demonstrator.  
 C. A. Morrison, M.D., C.M.

## *Medical Jurisprudence.*

- W. T. Connell, M.D., M.R.C.S., L.R.C.P.

## *Ophthalmology, Otology, Laryngology, and Rhinology.*

- J. C. Connell, M.A., M.D.

## *Mental Diseases.*

- C. K. Clarke, M.D. . . . . Med. Supt. Hospital for the Insane.

*Biology, Physiology and Histology.*

- James Fowler, M.A., F.R.S.C.....Professor of Botany and Vegetable Histology.  
A. P. Knight, M.A., M.D.....Professor of Animal Biology, Physiology and Histology.  
T. T. Bower.....Tutor in Biology.  
A. W. Richardson, B.A., M.D.....Tutor in Histology.

*Chemistry and Applied Chemistry.*

- W. L. Goodwin, B. Sc. (Lond.)  
(D. Sc., Edin.).....Professor.  
Isaac Wood, M.A., M.D.....Tutor in Chemistry.

*Examiners in Law.*

- J. L. Whiting, M.A., K.C....Criminal Law.  
R. Vashon Rogers, B.A., LL.D....Common Law.  
G. M. Macdonnell, B.A., K.C....The Law of Real Property,  
R. T. Walkem, LL.D., K.C.....Equity.  
John McIntyre, M.A., K.C.....Medical Jurisprudence.



**OTHER OFFICERS.**

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*Registrar of University Council.*

FRANCIS KING, M.A.

*Observatory Board.*

THE PRINCIPAL.

*Director of Observatory.*

PROF. DUPUIS, M.A., F.B.S., Edin.

*Curators of Library.*

PROFESSOR ROSS, MACNAUGHTON, KNIGHT AND SHORTT.

*Librarian.*

LOIS SAUNDERS.

*Postmistress.*

MISS ALICE KING.

*Curators of Museum.*

PROFESSORS OF BOTANY AND GEOLOGY.

*Examiner in Medical Matriculation.*

JOHN SHARP, M.A.

*Examiners in Gaelic.*

PROFESSOR MACNAUGHTON AND REV. M. MACGILLIVRAY, M.A.

*Janitor.*

JOHN V. BURTON.

# TIME TABLE—ARTS.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8	Sr. French. †El. Crystallog'y *German.	Sr. French. †El. Crystallog'y *German. Sr. Hebrew. *Mineralogy.	Jr. English. Sr. French. †El. Crystallog'y *German. Sr. Hebrew. *Mineralogy.	Sr. French. †El. Crystallog'y *German. *Mineralogy.	Jr. English. Sr. French. †El. Crystallog'y *German. Sr. Hebrew. *Mineralogy.	*†Assaying.
9	Jr. Greek. Jr. French. Jr. Hebrew. Jr. History. Jr. Philosophy. Animal Biology. El. Mineralogy. *Philosophy. *Pol. Science.	Jr. Greek. Jr. French. Jr. Hebrew. Jr. History. Sr. Philosophy. An. Biology. *Mineralogy. *Philosophy. *Pol. Science.	Jr. Greek. Jr. French. Jr. Hebrew. Jr. History. Jr. Philosophy. An. Biology. *Mineralogy. *Philosophy. *Pol. Science.	Jr. Greek. Jr. French. Sr. History. Sr. Philosophy. Sr. Physics. *Philosophy. *Pol. Science.	Jr. Greek. Jr. French. Jr. Hebrew. Jr. History. Jr. Philosophy. Animal Biology *Philosophy. *Pol. Science. *Mathematics.	*†Assaying.
10	Jr. Latin. Jr. Pol. Science. Jr. Physics. *Latin. *Italian. *History. *Philosophy. *Geology.	Jr. Latin. Sr. Pol. Science. Sr. Mathemat. Botany. *Latin. *German. *History. *Spanish. *Mineralogy. *Geology.	Jr. Latin. Jr. Pol. Science. Jr. Physics. Botany. *Latin. *Italian. *History. *Philosophy. *Mathematics. *Geology.	Jr. Latin. Sr. Pol. Science. Sr. Mathemat. Botany. *Latin. *German. *History. Biol. Laboratory *Spanish. *Mineralogy. *Geology.	Jr. Latin. Jr. Pol. Science. Jr. Physics. *Latin. *History. Biol. Laboratory *French. *Geology.	*†Assaying.
11	Sr. Latin. Jr. German. Jr. Chemistry. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. Jr. Chemistry. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. Jr. Prac. Chem. *Greek. *Mineralogy. *Botany. *Geology.	Sr. Latin. Jr. German. Sr. Chemistry. *French. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. Sr. Chemistry. *Greek. *Botany. *Geology.	*†Assaying.

12	Sr. Greek. Sr. German. *German. *Philosophy. *Physics. *An. Biology.	Sr. Greek. Sr. German. *German. *Sanskrit. *Philosophy. *Physics. *An. Biology.	Sr. Greek. Sr. German. *German. *Philosophy. *Physics. *An. Biology.	Sr. Greek. Sr. German. *German. *Philosophy. *Physics. *An. Biology. *Astronomy.	*‡Assaying.
	Sr. English. *Mineralogy.	Sr. English. Geology. *Physics.	Sr. English.	*English.	*‡Assaying.
3	Jr. Mathemat. *English. *Chemistry.	Jr. English. *Physics. *Chemistry.	Jr. Mathemat. *English. *Chemistry.	Jr. English. *Mathematics. *Physics. *Chemistry.	*‡Assaying.
	*Mathematics.	Anglo-Saxon. *Mathematics.	*Mathematics.		*‡Assaying.

\*Denotes Honours.

†Course of about 15 lectures at opening of first term.

‡Second term only.

TIME TABLE—THEOLOGY.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8		*Ch. History. Sr. Hebrew.	Sr. Hebrew.	*Ch. History.	Sr. Hebrew.
9	Jr. Hebrew.	*O. T. Criticism	Jr. Hebrew.	*O. T. Criticism	Jr. Hebrew.
10	N. T. Criticism	O. T. Criticism	History of Dogma.	O. T. Criticism	N. T. Criticism
11	Ch. History.	Divinity.	Divinity.	Ch. History.	Ch. History.
12	Discourses.	Apologetics.	Apologetics.	Apologetics.	English Bible

\*Denotes Honours.

## JUNIOR AND SENIOR MATRICULATION EXAMINATIONS.

SEPTEMBER, 1902.

9 A. M.

2 P. M.

Thursday,	18th	Sept.—English Composition.	Eng. Literature.
Friday,	19th	" —History.	Euclid.
Saturday,	20th	" —Latin Authors.	Latin Grammar and Composition.
Monday	22nd	" —Physics.	
Tuesday,	23rd	" —Arithmetic.	Algebra.
Wednesday,	24th	" —French Authors.	French Grammar and Composition.
Thursday,	25th	" —Greek Authors.	Greek Grammar and Composition.
		German Authors.	German Grammar and Composition.
Friday,	26th	" —Botany.	Animal Biology.
Saturday,	27th	" —Chemistry.	English Grammar.

## PASS SUPPLEMENTAL EXAMINATIONS.

SEPTEMBER, 1902.

9 A. M.

2 P. M.

Tuesday,	16th	Sept.—Jr. Latin	Sr. Latin.
Wednesday,	17th	" —Jr. Pol. Science.	Sr. Pol. Science.
Thursday,	18th	" —Jr. English.	Sr. English.
Friday,	19th	" —Jr. History.	Sr. History.
Saturday,	20th	" —Jr. Philosophy.	Sr. Philosophy.
Monday,	22nd	" —Jr. Physics.	Sr. Physics.
Tuesday,	23rd	" —Jr. Mathematics.	Sr. Mathematics.
Wednesday,	24th	" —Mineralogy.	Geology.
		Jr. French.	Sr. French.
Thursday,	25th	" —Jr. Greek.	Sr. Greek,
		Jr. German.	Sr. German.
Friday,	26th	" —Botany.	Animal Biology.
Saturday,	27th	" —Jr. Chemistry.	Sr. Chemistry.
Friday,	31st.	Oct. —Jr. Hebrew.	Sr. Hebrew.

## PASS EXAMINATIONS.

APRIL, 1903.

### ARTS.

9 A.M.

2 P.M.

Monday,	6th April.	—Jr. French.	Sr. French.
Tuesday,	7th	" —Jr. Greek.	Sr. Greek.
Wednesday,	8th	" —Jr. English.	Mineralogy.
Thursday,	9th	" —Sr. English.	Geology.
Friday,	10th	" —Jr. Pol. Science.	Sr. Pol. Science.
Saturday,	11th	" —Jr. Mathematics.	Jr. History.
Monday,	13th	" —Sr. Mathematics.	Sr. History.
Tuesday,	14th	" —Jr. Latin.	Sr. Latin.
Wednesday,	15th	" —Jr. Philosophy.	Sr. Philosophy.
Thursday,	16th	" —Jr. Physics.	Sr. Physics.
Friday,	17th	" —Jr. Chemistry.	Sr. Chemistry.
Saturday,	18th	" —Botany.	Animal Biology.
Monday,	20th	" —Jr. German.	Sr. German.
Tuesday,	21st	" —Junior Hebrew.	Sr. Hebrew.

### THEOLOGY.

9 A.M.

Wednesday,	15th April.	—Church History.
Thursday,	16th	" —O. T. Criticism.
Friday,	17th	" —New Testament Criticism.
Saturday,	18th	" —History of Dogma.
Monday,	20th	" —Divinity.
Tuesday,	21st	" —Sr. O. T. Criticism.
Wednesday,	22nd	" —Apologetics.

Three hours allowed for each paper.


Time table for Honour Examinations will be issued in March.

## GENERAL ANNOUNCEMENTS.

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QUEEN'S COLLEGE has, under its Royal Charter, "the style and privileges of a University."

The Sixty-second Session will open on Wednesday, the 1st of October, 1902.

 A compilation of statutes and by-laws containing information for students is published separately. Copies are to be obtained from the Registrar.

BOARDING.—Lists of boarding houses may be obtained from the Registrar. A residence for a limited number of women students has been recently established. Persons desiring information should write to "Miss Drummond, the Residence, Kingston."

REGISTRATION.—All students are required to have their names entered in the University Register. Before registration they must pay the required fees, or produce the Treasurer's receipt for them. They must also present a certificate of character from their clergyman or other competent person, and sign a declaration promising due obedience to the University authorities.

ATTENDANCE AT CHURCH.—All students are expected to attend the churches to which they profess to belong, and produce certificates of attendance from their clergyman when required.

THE LIBRARY contains about 37,000 volumes. Students are entitled to the use of it subject to by-laws.

THE OBSERVATORY.—The Astronomical Observatory, which was founded in 1858, by the joint assistance of the City Corporation and private subscribers, was transferred to the University in 1861.

The building contains a transit room, an equatorial room and working room.

The instruments are a Beaufoy transit loaned by the Royal Astronomical Society, an equatorial by Alvan Clark & Sons, a small transit by Troughton and Simms, a sidereal clock by Fauth & Co., a mean-time clock, and several smaller instruments.

Time is supplied to the city and mathematical and engineering students are taught how to make and reduce the more commonly occurring astronomical observations.

Courses of lectures given upon Descriptive Astronomy and on Practical Astronomy, in alternate years, are open to the citizens of Kingston.

THE MUSEUM.—The geological collections, embracing rocks, minerals and fossils, contain the following:

1. The Bell collections, illustrating a north and south stratigraphical section across the Province from Lake Erie, 1,000 specimens. Section across the Ottawa river, 500.

2. Specimens of rocks and minerals from various sources, 3,600.

3. Specimens of fossils, 5,000. The rocks and minerals contributed and collected during late years are deposited in the collections of the School of Mining.

4. The Botanical collection contains 1,200 genera, 3,650 species, and 9,450 sheets of mounted plants. The private herbarium in the museum contains 2,157 genera, 8,654 species, and 14,731 sheets. These include large collections of Tasmanian, Australian, South African, European and Asiatic species. The flora of the British Islands is almost completely represented.

5. The zoological collection contains: Mammals, 26; birds, 130; fishes, 40; invertebrates, about 200 in alcohol and 150 dry; a small collection of reptiles, and another of insects; the mollusca are represented by about 2,600 shells. A large addition has been recently made to the herbarium.

ACADEMIC COSTUME.—All graduates and undergraduates when attending class or any college meeting, shall wear the costume prescribed by the University.

Each degree has its distinctive hood, as follows: B.A., black, bordered with red silk; M.A., scarlet; B.Sc., black silk, bordered with yellow silk; D.Sc., black silk, lined with blue silk, bordered with white; M.D., scarlet, bordered with white; B.D., white, bordered with crimson plush; D.D., black silk, lined with white silk; LL.B., blue, bordered with white fur; LL.D., black silk, lined



with blue silk; Ph.D., black silk, lined with purple, bordered with white.

**FEES.**—Graduation and spring examination fees must be paid before March 31st; supplemental examination fees before September 1st; all other fees on or before October 9th.

**FEES: (1) FACULTY OF ARTS.**

Senior Matriculation Examination . . . . .	\$ 10 00
Senior Matriculation on <i>pro tanto</i> certificate . . . . .	10 00
Junior Matriculation Examination at University . . . . .	5 00
Extra-mural Junior Matriculation Examination (Sept.)..	8 00
Athletics. . . . . (per session)	2 00
Registration. . . . .	10 00
Class Fees . . . . .	25 00
*Pass Examination . . . . .	8 00
Honour Examination . . . . .	10 00
Any Class except those mentioned below . . . . .	8 00
Junior Chemistry . . . . .	12 00
Senior Chemistry . . . . .	12 00

**SPECIAL FEES.**

Laboratory—Element'y Mineralogy & Blowpip'g per session	5 00
“ Honour Qualitative Analysis . . . . .	20 00
“ Honour Quantitative Analysis....	20 00
“ Physics, Pass Course . . . . .	2 00
“ Physics, Honour . . . . .	10 00
“ Botany, Pass Course . . . . .	1 00
“ **Botany, Honour Course . . . . .	3 00
“ Animal Biology, Pass Course . . . . .	3 00
“ Animal Biology, Honour Course. . . . .	12 00
“ Petrography . . . . .	5 00
“ Assaying . . . . .	5 00
Junior Philosophy (correcting essays).. . . . .	1 00
Matriculation Certificate . . . . .	5 00
Certificate of Standing . . . . .	1 00
Graduation—Bachelor of Arts (B.A.) . . . . .	10 00
“ Master of Arts (M.A.) . . . . .	20 00
“ Doctor of Philosophy (Ph.D.) . . . . .	50 00
“ Doctor of Science (D.Sc.) . . . . .	50 00
Admission ad eundum gradum (B.A.) . . . . .	20 00
“ “ statum . . . . .	10 00

Students taking Physics, Chemistry, Geology or Mineralogy must register in the School of Mining, pay the fee of \$1.00 and make a deposit of \$5.00.

\*\*Students collecting 200 specimens for their own use will be exempt from this fee.

\*Students who have paid the examination fee in April can write on the September Examinations on payment of \$4.00.

FEES: (2) FACULTY OF PRACTICAL SCIENCE.

Matriculation Examination (September) . . . . .	\$ 5 00
Registration . . . . . per session	10 00
Athletics . . . . .	2 00
Class Fees—1st Year. . . . .	45 00
“ 2nd Year. . . . .	45 00
“ 3rd Year. . . . .	50 00
“ 4th Year. . . . .	55 00
*Pass Examination. . . . .	8 00

FOR STUDENTS NOT PAYING CLASS FEES AS ABOVE.

Any Class except those specified below. . . . . per session	\$ 8 00
Junior Chemistry. . . . .	12 00
Senior Chemistry. . . . .	12 00
Practical Trigonometry and Descriptive As- tronomy . . . . .	10 00
Elementary Drawing. . . . .	9 00
“ Surveying . . . . .	10 00
Qualitative Analysis. . . . .	20 00
Study of Mathematical Instruments. . . . .	8 00
Practical Surveying. . . . .	10 00
Mechanical and Engineering Laboratory. . . . .	20 00
Experimental Study of Electricity and Magnet- ism . . . . .	10 00
Laboratory—Elementary Mineralogy and Blow- piping . . . . .	5 00
“ Honour Qualitative Analysis. . . . .	20 00
“ Honour Quantitative. . . . .	20 00
“ Honour Practical Physics. . . . .	10 00
“ Pass Practical Physics. . . . .	2 00
“ Animal Biology, Honour Course . . . . .	12 00
“ Animal Biology, Pass Course. . . . .	3 00
“ Petrography. . . . .	5 00
“ Assaying . . . . .	5 00
Certificate of Standing. . . . .	1 00
Graduation—B. Sc. . . . .	20 00
“ M. E. . . . .	20 00
Admission ad eundum statum. . . . .	10 00

\*Students who have paid the examination fee in April can write on the September examination on payment of \$4.00.

### FEES: (3) FACULTY OF MEDICINE.

Matriculation Examination (October 1st) . . . . . \$5 00

The Sessional Fee, including Classes, Registration, Athletics, Library, Examination Laboratories, and the required amount of dissection material is \$100 per session. If paid before October 31st, \$90. If not paid before January 10th, \$105. Special arrangements will be made as to fees with those who do not take the full course of any year.

#### .. SPECIAL FEES.

Fee for Summer Session . . . . . \$20 00  
 Special Course on Eye, Ear and Throat . . . . . 6 00  
 Admission ad eundum statum . . . . . 10 00  
 Graduation—M.D., C.M. . . . . 30 00

For further information on this Faculty, apply to Dr. Herald, the Secretary.

### FEES (4) FACULTY OF THEOLOGY.

Registration . . . . . per session \$ 5 00  
 Matriculation . . . . . " 2 00  
 Athletics . . . . . " 2 00  
 Pass Examination . . . . . " 3 00  
 Supplemental Pass Examination . . . . . " 3 00  
 \*B.D. Examination . . . . . " 6 00

#### SPECIAL FEES.

Testamur . . . . . \$ 2 00  
 Graduation—Bachelor of Divinity . . . . . 20 00  
 Admission ad eundum statum . . . . . 10 00

### FEES: (5) FACULTY OF LAW.

Registration . . . . . per session \$10 00  
 Examination . . . . . " 10 00

#### SPECIAL FEES.

Graduation Bachelor of Laws (LL.B.) . . . . . \$20 00  
 Admission ad eundum gradum . . . . . 20 00  
 Admission ad eundum statum . . . . . 10 00

### (6) AGRICULTURE.

For information apply to J. W. Hart, Superintendent of Dairy School.

\*Students who have paid the examination fee in April can write on the September examinations on payment of \$3.00.

## FACULTY OF ARTS.

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### ARTICLE I.—PASS MATRICULATION.

#### GENERAL REGULATIONS.

1. The classes in the University are open to unmatriculated students, but candidates for a degree must pass the matriculation examination or an examination accepted by the Senate as equivalent before being admitted to examination on the University courses.

2. Any person presenting a Departmental certificate of matriculation will be admitted as an undergraduate upon paying the registration fee. Any person will be exempt from any part of the Matriculation Examination already passed.

3. Any person presenting a Junior Leaving certificate will be permitted to enter upon a University course in Arts, but his first examination must include any two of Junior Latin, Greek, French or German.

4. The examination in July will be that conducted for the Universities by the Education Department, known as the Departmental Matriculation examination. The examination will be held at Queen's University and at the various Collegiate Institutes and High Schools of Ontario. Candidates for this examination, if they propose to write at a Collegiate Institute or High School, must notify the Public School Inspector of their city or county, and pay him the fee before May 23rd, and at the same time send notice to the University Registrar on a form which will be supplied on application. Candidates pro-

posing to write at Queen's University must send the required notice to the Registrar by May 23rd, accompanied by the fee.

5. A second examination will begin at Queen's University on September 18th, 1902. Notice of intention to appear at this examination, together with the fee, must be sent to the Registrar by September 2nd, on a form which will be supplied on application. A Candidate failing partially in July and desiring to complete the examination in September, and who did not write at Queen's University, must send a copy of the marks obtained in the July examination, certified by the headmaster of the school at which he wrote.

6. The fees for Junior Matriculation are:—Part I., \$2.00; Part II., \$5.00; Part I. and II., taken at the same time, \$5.00.

7. All candidates for Junior Matriculation shall take English, Latin, History, Mathematics, and any two of Greek, French, German, Experimental Science (Physics and Chemistry).

8. The examination is divided into Parts I. and II., which may be taken together or at different times. Part I. includes Arithmetic, English, Grammar, and the History of Great Britain and Canada. Part II. includes Latin, English, Composition, English Literature, Ancient History, Algebra, Geometry, and any two of Greek, French, German and Chemistry. Physics of either Form II. or III. of the High School course must be taken with either Part I. or Part II. by the candidates who select Experimental Science.

9. The percentage for Pass is thirty-three and one-third on each paper. The marks for sight work on each

of the "Authors" papers shall not constitute more than thirty-three and one-third per cent. of the whole of the marks for the paper.

10. In the case of students over the age of 21 the Senate may postpone the Matriculation examination.

11. Junior Leaving certificates will be accepted *pro tanto* at both Part I. and Part II. of the Junior matriculation examination.

12. Matriculation scholarships will be awarded on the results of the July Departmental Matriculation examination. (See article on Matriculation Scholarships).

13. Candidates for scholarships must notify the Registrar not later than May 23rd, stating distinctly where they intend to write, and declaring their intention to enter, if successful on a course of study in Queen's University.

SUBJECTS OF JUNIOR MATRICULATION, 1902-1903.

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PART I.

ENGLISH GRAMMAR AND RHETORIC.

The main facts in the development of the language. Etymology and Syntax, including the inflection, classification, and elementary analysis of words and the logical structure of the sentence.

One examination paper.

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ARITHMETIC.

*Arithmetic.*—Elementary Rules; Fractions (Vulgar and Decimal), Interest, Discount and easy problems in Stocks.

One examination paper.

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HISTORY OF GREAT BRITAIN AND CANADA.

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British History.

The Geography relating to the period prescribed.

One examination paper.

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PHYSICS.

Use of metre rule; use of calipers and vernier for more accurate metric measurements (*e.g.*, diameters of wires, thickness of glass, plates, etc.); numerical calculation in the metric system.

Use of balance.

Specific gravity, by specific gravity bottle and hydrostatic balance, of liquids and of solids.

Boyle's law; barometer, diffusion of gases.

Use of Fahrenheit and Centigrade thermometers; determination of zero and boiling point dependent on pressure.

Expansion of solids, liquids and gases; examples.

Specific heat; latent heat; easy numerical examples.

Transmutation of matter; indestructibility of matter.

Solution, precipitation, crystallization and evaporation.

One examination paper.



## PART II.

### GREEK.

Translation into English of passages from prescribed texts.

Translation at sight (with the aid of vocabularies) of easy Attic prose, to which special importance will be attached.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation from English into Greek of sentences and of easy narrative passages based upon the prescribed prose texts.

1903: Selections from Xenophon, *Anabasis* I, in White's *Beginner's Greek Book* (pp. 304-428) with the exercises thereon; Homer, *Iliad* VI.

1904 { Selections from Xenophon, *Anabasis* I, in White's *Beginner's Greek Book* (pp. 304-428) with the exercises thereon; Homer, *Iliad* I.

Two papers will be set: (1) Prescribed texts and translations at sight, questions on grammar; (2) the translation of English into Greek.

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### LATIN.

Translation into Latin of English phrases and easy sentences to illustrate Latin accidence and the common rules of Latin syntax.

Translation into Latin of easy narrative English based upon the first twenty-five chapters of the prescribed *Caesar*.

Translation at sight (with the aid of vocabularies) from some easy prose author.

Translation from prescribed texts, with grammatical and other questions naturally arising from the extracts set for translation.

The following are texts prescribed:—

1903, 1904: Cornelius Nepos, *Lives of Themistocles, Aristides and Hannibal*; *Caesar, Bellum Gallicum*, Bk. IV. (omitting chap. 17) and Bk. 5, chaps. 1-23; Virgil, *Æneid*, Bk. II. (1-505.)

Two papers will be set: (1) Translation of English into Latin. (2) Prescribed texts and translation at sight, with questions and grammar, etc.

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### MATHEMATICS.

*Algebra*.—Elementary rules, Highest Common Measure, Lowest Common Multiple, Fractions, Square Root, Simple Equations of one, two and three unknown Quantities, Indices, Surds, Quadratics of one and two unknown quantities.

One examination paper.

*Geometry*.—Euclid: I, II, and III; Easy Deductions.

One examination paper.



### FRENCH.

The candidate's knowledge of French will be tested by: (1) simple questions on Grammar, (2) the translation of simple passages from English into French, (3) translation at sight of easy passages from modern French and (4) an examination on the following texts:

1903: LAMENNAIS, *Paroles d'un croyant*, Chaps. VII and XVII; PERRAULT, *le Maître Chat ou le Chat Botté*; DUMAS, *Un nez gelé*, and *la Pipe de Jean Bart*; ALPHONSE DAUDET, *la Dernière classe*, and *la Chèvre de M. Seguin*; LEGOUVÉ, *la Patte de dindon*; POUVILLON, *Hortibus*; LOTI, *Chagrin d'un vieux forçat*; MOLIERE, *l'Avare*, Acte III, sc. 5 (*Est-ce à votre cocher... sous la mienne*); VICTOR HUGO, *Waterloo*, Chap. IX; ROUGET DE L'ISLE, *la Marseillaise*; ARNAULT, *la Feuille*; CHATEAUBRIAND, *l'Exilé*; THÉOPHILE GAUTIER, *la Chimère*; VICTOR HUGO, *Extase*; LAMARTINE, *l'Automne*; DE MUSSET, *Tristesse*; SULLY PRUDHOMME, *le Vase brisé*; LA FONTAINE, *le Chêne et le Roseau*.

FEUILLET, *le Village*.

1904: LAMENNAIS, *Paroles d'un croyant*, Chaps. VII and XVII; PERRAULT, *le Maître Chat ou le Chat Botté*; DUMAS, *Un nez gelé*, and *la Pipe de Jean Bart*; ALPHONSE DAUDET, *la Dernière classe*, and *la Chèvre de M. Seguin*; LEGOUVÉ, *la Patte de dindon*; POUVILLON, *Hortibus*; LOTI, *Chagrin d'un vieux forçat*; MOLIERE, *l'Avare*, Acte III, sc. 5 (*Est-ce à votre cocher... sous la mienne*); VICTOR HUGO, *Waterloo*, Chap. IX; ROUGET DE L'ISLE, *la Marseillaise*; ARNAULT, *la Feuille*; CHATEAUBRIAND, *l'Exilé*; THÉOPHILE GAUTIER, *la Chimère*; VICTOR HUGO, *Extase*; LAMARTINE, *l'Automne*; DE MUSSET, *Tristesse*; SULLY PRUDHOMME, *le Vase brisé*; LA FONTAINE, *le Chêne et le Roseau*.

DAUDET, *la Belle Nivernaise*.

Two papers will be set: (1) Prescribed texts and translation at sight; questions on Grammar; (2) the translation of English into French.

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### GERMAN.

The candidate's knowledge of German will be tested by: (1) simple questions on Grammar, (2) the translation of simple passages from English into German, (3) translation at sight of easy passages from modern German, and (4) an examination on the following texts:

1903: GRIMM, *Rotkäppchen*; ANDERSEN, *Wie's der Alte macht*, *Das neue Kleid*, *Venedig*, *Rothschild*, *Der Bär*; ERTL, *Himmelschlüssel*; FROMMEL, *Das eiserne Kreuz*; BAUMBACH, *Nicotiana*, *Der Goldbaum*; HEINE, *Lorelei*, *Du bist wie eine Blume*; UHLAND, *Schäfer's Sonntagslied*, *Das Schloss am Meer*; CHAMISSO, *Das Schloss Boncourt*; CLAUDIUS, *Die Sterne*, *Der Riese Goliath*; GOETHE, *Mignon*, *Erkönig*, *Der Sänger*; SCHILLER, *Der Jüngling am Bache*.

LEANDER, Träumereien, pp. 45-90 (selected by Van Daell).

1904: GRIMM, Rotkäppchen; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär; ERTL, Himmelschlüssel; FROMMEL, Das eiserne Kreuz; BAUMBACH, Nicotiana, Der Goldbaum; HEINE, Lorelei, Du bist wei eine Blume; UHLAND, Schäfer's Sonntagsglied, Das Schloss am Meer; CHAMISSO, Das Schloss Boncourt; CLAUDIUS, Die Sterne, Der Riese Goliath, GOETHE, Mignon, Erlkönig, Der Sänger; SCHILLER, Der Jüngling am Bache.

BAUMBACH, Waldnovellen.

Two papers will be set: (1) Prescribed texts and translations at sight; questions on Grammar; (2) the translation of English into German.

### ENGLISH.

*Composition.*—An essay, to which special importance will be attached on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

One examination paper.

*Literature.*—Such questions only shall be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of, the prescribed texts. The candidate will be expected to have memorized some of the finest passages. In addition to questions on the following selections, others shall be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

One examination paper.

1903.

COLERIDGE: The Ancient Mariner.

WORDSWORTH: Michael, Influence of Natural Objects, Nutting, Expostulation and Reply, The Tables Turned, The Solitary Reaper, Ode to Duty, Elegiac Stanzas, To Rev. Dr. Wordsworth, "She was a Phantom of Delight," To the Cuckoo, The Green Linnet, "Bright flower whose home," To a Skylark, "Ethereal Minstrel," Reverie of Poor Susan, To my Sister, "Three years she grew," September 1819, Upon the Same Occasion.

The following twelve sonnets: "Two voices are there," "Scorn not the Sonnet," "A flock of sheep that leisurely," "Earth hath not anything," "It is not to be thought of," "Fair Star of Evening," "O Friend! I know not," "Milton! thou should'st," "When I

have borne in memory," "Brook! whose society," "Tax not the saint," "They dreamt not of a perishable home."

SHAKESPEARE, Merchant of Venice.

1904.

TENNYSON: Lady of Shalott, Lotus Eaters, Oenone, The Epic and Morte d'Arthur, Ulysses, "You ask me why," "Of old sat Freedom," "Love thou thy land," St. Agnes' Eve, "Break, break, break," Sir Galahad, "Tears, idle tears," and the six interlude songs from The Princess, The Brook, Ode on the Duke of Wellington, Charge of the Light Brigade.

SHAKESPEARE, Julius Cæsar.

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#### ANCIENT HISTORY.

1. General outlines of Greek History to the fall of Corinth.
  2. General outlines of Roman History to the death of Augustus.
- Geography relating to the history prescribed.  
One examination paper.

#### CHEMISTRY.

Properties of Hydrogen, Chlorine, Oxygen, Sulphur, Nitrogen, Carbon and their more important compounds. Nomenclature. Laws of combination of the elements. The Atomic Theory and Molecular Theory.

One examination paper.

## ARTICLE II.—SENIOR MATRICULATION.

1. Candidates who intend to pursue an Honour Course in the University are recommended to take the Senior Matriculation (Form IV.) in as many subjects as possible.

2. Candidates for Senior Matriculation shall take English, Latin, History, Mathematics, and any two of Greek, French, German, Experimental Sciences (Physics and Chemistry).

3. The percentage for Pass is thirty-three and one-third on each paper. The marks for sight work on each of the "Authors" papers shall not constitute more than thirty-three and one-third per cent. of the whole of the marks for the paper.

\*4. Candidates who have taken forty per cent. on the Senior Matriculation or Senior Leaving papers in Latin, Greek, French, German, Mathematics, English, Chemistry, Physics, or Biology, will, on payment of the Senior Matriculation *pro tanto* fee, not be required to take the University Junior class in the subject. As no student is allowed to pass more than five classes in a session, (see clause 5, article VIII) any one entering under this clause will not be exempt from more than five classes.

5. Any person presenting a Senior Leaving certificate with Science option will be permitted to enter upon a University course, but in his first examination, must include either Junior Latin, Greek, French or German.

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\*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating where and when they wrote, and have their marks forwarded to the Registrar, who will advise the classes allowed.

## SUBJECTS OF SENIOR MATRICULATION.

### GREEK.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Greek of ordinary narrative passages of English.

The following are the prescribed texts:—

1903: XENOPHON, *Anabasis* I (Chaps. I-VIII); HOMER, *Iliad* VI; *Odyssey* XVII; LUCIAN, *Timon*; LYSIAS, *Pro Mantistheo* and *de Invalido*.

1904: XENOPHON, *Anabasis* I (Chaps. I-VIII); HOMER, *Iliad* I, *Odyssey* XIX; LUCIAN, *Timon*; LYSIAS, *Pro Mantistheo* and *de Invalido*.

Two examination papers.

### LATIN.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar in style to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Latin of ordinary narrative passages of English.

1903: CORNELIUS NEPOS, *Lives of Themistocles, Aristides, and Hannibal*; CAESAR, *Bellum Gallicum*, Book IV, omitting Chap. 17, and Bk. V, Chaps. 1-23; VERGIL, *Æneid* II, lines 1-505; HORACE, *Odes* III and IV; CICERO, *Pro Lege Manilia*, *Pro Marcello*, *Philippic* XIV (Harper's Text).

1904: CORNELIUS NEPOS, *Lives of Themistocles, Aristides, and Hannibal*; CAESAR, *Bellum Gallicum*, Book IV, omitting Chap. 17, and Bk. V, Chaps. 1-23; VERGIL, *Æneid* II, lines 1-505; HORACE, *Odes* III, IV; CICERO, *In Catilinam* I, III, IV.

Two examination papers.

### MATHEMATICS.

*Algebra*.—Elementary Rules; Highest Common Measure; Lowest Common Multiple; Fractions; Square Root; Simple Equations of one, two and three unknown Quantities; Indices; Surds; Quadratics of one and two unknown quantities; Theory of Divisors; Ratio, Proportion and Variation; Progressions; Notation; Permutations and Combinations; Binomial Theorem; Interest Forms, Annuities.

One examination paper.

*Geometry.*—Euclid, Books I, II, III, IV and VI; Definitions of Book V; Deductions.

One examination paper.

*Trigonometry.*—Trigonometrical ratios with their relations to each other; Sines, etc., of the sum and difference of angles with deduced formulas; use of Logarithms; solution of Triangles; expressions for the area of a Triangle; Radii of circumscribed, inscribed and escribed circles.

One examination paper.

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FRENCH.

The prescription of work in Grammar, Composition and Sight Translation is the same for Senior as for Junior, but the examination will be of a more advanced character.

The following are the prescribed texts:

1903 : LAMENNAIS, *Paroles d'un croyant*, Chaps. VII and XVII ; PERRAULT, *le Maître Chat ou le Chat Botté* ; DUMAS, *Un nez gelé*, and *la Pipe de Jean Bart* ; ALPHONSE DAUDET, *la Dernière classe*, and *la Chèvre de M. Seguin* ; LEGOUVÉ, *la Patte de dindon* ; POUVILLON, *Hortibus* ; LOTI, *Chagrin d'un vieux forçat* ; MOLIERE, *l'Avare*, Acte III, sc. 5 (*Est-ce à votre cocher . . . sous la mienne*) ; VICTOR HUGO, *Waterloo*, Chap. IX ; ROUGET DE L'ISLE, *la Marseillaise* ; ARNAULT, *la Feuille* ; CHATEAUBRIAND, *l'Exilé* ; THÉOPHILE GAUTIER, *la Chimère* ; VICTOR HUGO, *Extase* ; LAMARTINE, *l'Automne* ; DE MUSSET, *Tristesse* ; SULLY PRUDHOMME, *le Vase brisé* ; LA FONTAINE, *le Chêne et le Roseau*.

FEUILLET, *le Village*.

DUMAS, *la Tulipe noire*. Ed. by E. E. Brandon (American Book Co.)

1904 : LAMENNAIS, *Paroles d'un croyant*, Chaps. VII and XVII ; PERRAULT, *le Maître Chat ou le Chat Botté* ; DUMAS, *Un nez gelé*, and *la Pipe de Jean Bart* ; ALPHONSE DAUDET, *la Dernière classe*, and *la Chèvre de M. Seguin* ; LEGOUVE, *la Patte de dindon* ; POUVILLON, *Hortibus* ; LOTI, *Chagrin d'un vieux forçat* ; MOLIERE, *l'Avare*, Acte III, sc. 5 (*Est-ce à votre cocher . . . sous la mienne*) ; VICTOR HUGO, *Waterloo*, Chap. IX ; ROUGET DE L'ISLE, *la Marseillaise* ; ARNAULT, *la Feuille* ; CHATEAUBRIAND, *l'Exilé* ; THEOPHILE GAUTIER, *la Chimère* ; Victor Hugo, *Extase* ; LAMARTINE, *l'Automne* ; DE MUSSET, *Tristesse* ; SULLY PRUDHOMME, *le Vase brisé* ; LA FONTAINE, *le Chêne et le Roseau*.

DAUDET, *la Belle Nivernaise*.

SAINTINE, *Picciola*. Ed. by A. R. Ropes, University Press (Cambridge.)

Two examination papers.

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GERMAN.

The prescription of work in Grammar, Composition and Sight Translation is the same for Senior as for Junior, but the examination will be of a more advanced character.



The following are the prescribed texts :

1903 : GRIMM, Rotkäppchen ; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär ; ERTL, Himmelschlüssel ; FROMMEL, Das eiserne Kreuz ; BAUMBACH, Nicotiana, Der Goldbaum ; HEINE, Lorelei, Du bist wie eine Blume ; UHLAND, Schäfer's Sonntagslied, Das Schloss am Meer ; CHAMISSO, Das Schloss Boncourt ; CLAUDIUS, Die Sterne, Der Riese Goliath ; GOETHE, Mignon, Erlkönig, Der Sänger ; SCHILLER, Der Jüngling am Bache.

LEANDER, Träumereien, pp. 45 to 90.

BAUMBACH, der Schwiegersohn ; ELZ, Er ist nicht eifersüchtig ; WICHART, Post Festum.

1904 : GRIMM, Rotkäppchen ; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär ; ERTL, Himmelschlüssel ; FROMMEL, Das eiserne Kreuz ; BAUMBACH, Nicotiana, Der Goldbaum ; HEINE, Lorelei, Du bist wie eine Blume ; UHLAND, Schäfer's Sonntagslied, Das Schloss am Meer ; CHAMISSO, Das Schloss Boncourt ; CLAUDIUS, Die Sterne, Der Riese Goliath ; GOETHE, Mignon, Erlkönig, Der Sänger ; SCHILLER, Der Jüngling am Bache.

BAUMBACH, Waldnovellen.

EBNER-ESCHENBACH, die Freiherren von Gemperlein.

WILHELMI, Einer muss heiraten.

BENEDIX, Eigensinn.

Two examination papers.

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### ENGLISH.

*Composition*.—An essay, to which special importance will be attached, on one of several themes set by the examiners.

One examination paper.

*Literature*.—The candidate will be expected to have memorized some of the finest passages. Besides questions to test the candidate's familiarity with, and comprehension of, the following selections, questions may also be set to determine within reasonable limits his power of appreciating literary art.

*Rhetoric*.—Reading of prose authors in connection with the study of Rhetoric.

One examination paper.

1903.

COLERIDGE : The Ancient Mariner.

WORDSWORTH : Michael, Influence of Natural Objects, Nutting, Expostulation and Reply, The Tables Turned, The Solitary Reaper, Ode to Duty, Elegiac Stanzas, To Rev. Dr. Wordsworth, "She was a Phantom," To the Cuckoo, The Green Linnet, "Bright flower whose home," To a Skylark, "Ethereal Minstrel," Reverie of Poor Susan, To my Sister, "Three years she grew," September 1819, Upon the Same Occasion.

The following twelve sonnets:—

"Two voices are there," "Tax not the saint," "They dreamt not of a Perishable Home," "Scorn not the Sonnet," "A flock of sheep that leisurely," "Earth hath not anything," "It is not to be thought of," "Fair Star of Evening," "O Friend I know not," "Milton, thou shouldst," "When I have borne in memory," "Brook whose society."

SHAKESPEARE: Merchant of Venice, As You Like It.

1904.

TENNYSON: Lady of Shalott, Lotus Eaters, Oenone, The Epic and Morte d'Arthur, Ulysses, "You ask me why," "Of old sat Freedom," "Love thou thy land," St. Agnes' Eve, "Break, break, break," Sir Galahad, "Tears, idle tears," and the six interlude songs from the Princess, The Brook, Ode on the Duke of Wellington, Charge of the Light Brigade.

SHAKESPEARE: Macbeth; Julius Cæsar.

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## HISTORY.

English History from the discovery of America to 1763.

General outlines of Greek History to the battle of Corinth.

General outlines of Roman History to the death of Augustus.

The Geography relating to the History prescribed.

One examination paper.

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## PHYSICS.

*Mechanics.*—Measurement of velocity; uniformly accelerated rectilinear motion; metric units of force, work, energy and power; equilibrium of forces acting at a point; triangle, parallelogram, and polygon of forces; parallel forces; principles of moments; centre of gravity; laws of friction; numerical examples.

*Hydrostatics.*—Fluid pressure at a point; pressure on a horizontal plane; pressure on an incline plane; resultant vertical pressure, and resultant horizontal pressure, when fluid is under air pressure and when not; transmission of pressure; Bramah's press; equilibrium of liquids of unequal density in a bent tube; the barometer; air-pump; water-pump, common and force; siphon.

*Electricity.*—Voltaic cells, common kinds; chemical action in the cell; magnetic effects of the current; chemical effects of the current; voltameters; electroplating; astatic and tangent galvanometers; simple notions of potential; Ohm's law; shunts; measurement of resistance; electric light, arc and incandescent; current induction: induction coil, dynamo and motor; the joule and watt; electric bell; telegraph; telephone; elements of terrestrial magnetism.

One examination paper.



## CHEMISTRY.

*Chemical Theory.*—The study of the following elements, with their most characteristic compounds in illustration of Mendelejeff's Classification of the Elements; Hydrogen; Sodium, Potassium; Magnesium, Zinc; Calcium, Strontium, Barium; Boron, Aluminium; Carbon, Silicon, Tin, Lead, Nitrogen, Phosphorus, Arsenic, Antimony, Bismuth; Oxygen, Sulphur; Fluorine, Chlorine, Bromine, Iodine; Manganese, Iron. Elementary Qualitative Analysis.

A practical examination shall be held in connection with this subject, a pure salt will be sent out for qualitative analysis, and the candidate shall be allowed the use of an analytical table.

One examination paper.

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## BIOLOGY.

1. *Elements of Zoology.*—Thorough examination of the external form, the gills of the viscera of some common fish. Study of the prepared skeleton of the same. Demonstration of the arrangement of the muscular and nervous systems and the sense organs, as far as these can be studied without the aid of a microscope.

Comparison of the structure of the frog with that of a fish. The skeleton of the pectoral and pelvic girdles, and of the appendages of the frog, should be studied and the chief facts in the development of its spawn observed, till the adult form is attained.

Examination of the external form of a turtle and a snake.

Examination of the structure of a pigeon or a fowl.

Study of the skeleton, and also of the teeth of a cat or dog.

Study of a crayfish as a type of the Arthropods.

Comparison of the crayfish with an insect (grasshopper, cricket or cockroach); also with a millipede and a spider.

Examination of an earthworm.

Study of a fresh-water mussel.

The principles of zoological nomenclature as illustrated by some of the common fresh water fish, such as the sucker and herring, bass and perch.

Study of an amœba or paramœcium as a type of a unicellular animal.

The modification of the form of the body in vertebrates in connection with the different methods of locomotion.

2. *Elements of Botany.*—The examination will test whether the candidate has practically studied representatives of the flowering plants of the locality in which the preparatory school is situated, and representatives of the chief sub-divisions of cryptogams, such as a fern, a lycopod, a horsetail, a liverwort, a moss, a lichen, a mushroom, and a chara.

An elementary knowledge of the microscopic structure of the bean and the maize. Attention will be given in the examination to drawing and description of parts of plants supplied, and to the classification of these. Comparison of different organs, morphology of root, stem, leaves, and hair, parts of the flower, reproduction of flowering plants; pollination, fertilization, and the nature of fruit and seeds.

A practical examination shall be held in connection with this subject. The material for examination will consist of two plants, a microscopic section and an animal.

Two examination papers.

# ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1902.

A Scholarship cannot be held without attendance on the University classes. To be eligible for free tuition in the remaining sessions of his course the scholar must pass his annual examination to the satisfaction of the Senate. To hold a Scholarship a candidate must be fully matriculated.\*

I.—The following Scholarships, of the values specified, are awarded on the July Departmental Senior Matriculation (Form IV) examinations.

Candidates for Senior Matriculation Scholarships must take Honours in the department or departments specified in connection with the Scholarship.

<i>Name and Source of Money.</i>		<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subject.</i>
1. PRINCE OF WALES. \$60. Founded by H. M. King Edward VII .....		\$100	\$160	Mathematics, Chemistry and Physics.
2. GOVERNOR-GENERAL. \$75. Given by His Excellency the Earl of Minto, LL.D .....		100	175	Classics.
3. CHANCELLOR. \$100. Founded by Sir Sandford Fleming, K.C.M.G., Chancellor.....		100	200	Mathematics.
4. WILLIAMSON No. 1. \$65. Founded in memory of the late Vice-Principal, Rev. Dr. James Williamson ..		100	165	Classics and English.
5. WILLIAMSON No. 2. \$60. Founded in memory of the late Vice-Principal, Rev. Dr. James Williamson...		100	160	Classics and French or German.
6. LEITCH MEMORIAL No. 1. \$60. Founded in memory of the late Principal Leitch.....		100	160	English, Chemistry and Physics or Botany.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subjects.</i>
7. NICHOLLS FOUNDATION No. 1. \$50. Founded by the late Charlotte Nicholls, of Peterboro . . . . .	\$100	\$150	English, French and German.
8. MAYOR. \$50. Given by the Mayor of Kingston..	100	150	Latin, French and German.
9. MOWAT. \$50. Founded by the late John Mowat Esq., Kingston.....	100	150	Mathematics.
10. FORBES MCHARDY. \$25. Founded by the late Forbes McHardy, Esq., Toronto . . . . .	100	125	Mathem., French and German.
11. MEMBER'S. \$25. Given by The Honourable Mr. Justice Britton. . . . .	100	125	English, French and German.

II.—The following Scholarships, of the values specified, are awarded on the July Departmental Junior Matriculation (Form III) examinations for proficiency in the subjects indicated.

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subject.</i>
1. NICHOLLS FOUNDATION No. 2. \$30. Founded by the late Charlotte Nicholls, Peterboro.....	\$100	\$130	General proficiency. Part II, Junior Matriculation.
2. KINGSTON. \$25. Given by the Hon. Wm. Harty, M.P. for Kingston.....	100	125	Do.
3. NICHOLLS FOUNDATION No. 3. \$20. Founded by the late Charlotte Nicholls, Peterboro. ....	100	120	Do.

### III.—The following Scholarships have been endowed under special conditions :

<i>Name and Source of Money.</i>	<i>Free Tuition.</i>	<i>Total Value.</i>	<i>Subject.</i>
1. WATKINS. \$60. Founded by the late John Watkins, Esq., Kingston . . . . .	\$100	\$160	Given to the student of the Kingston Collegiate Institute who stands highest in the Senior Matriculation examination.
2. McLENNAN GLENGARRY FOUNDATION. \$75 a year for four years. Founded by R. R. McLennan, M. P., Alexandria . . . . .	100	400	
3, 4, 5. Same as No. 2 . . . . .			
6. MARION STEWART McDONALD. \$75. Founded by John S. McDonald, Esq., Fond du Lac, Wis. . . . .		75	General Proficiency. Given only to candidates of one of the High Schools of the County of Glengarry. General Proficiency. Given only to candidates from the County of Glengarry.
7. THE FRONTENAC . . . . .	100	150	

Notice of intention to compete for Scholarships must be sent to the Registrar before May 23rd, 1902, on a form which will be supplied on application.

\*Candidates who wish to present certificates for any part of Part I or Part II Matriculation will forward them with the notice.

## ART. IV. UNIVERSITY PRIZES, MEDALS AND SCHOLARSHIPS.

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### SPECIAL SCHOLARSHIPS.

#### EXHIBITION OF 1851, SCIENCE RESEARCH SCHOLARSHIP.

This scholarship of the annual value of £150 stg. is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and (except in very special circumstances) are under 30 years of age.

The nominee must be a British subject, must have been a *bona fide* student of this University for three years, must have been a student of this University for a full year immediately before his nomination, must be a student of this University at the time of his nomination, (or he must have been a student at this University for a full year ending within twelve months prior to his nomination and since ceasing to be such student must have been engaged solely in scientific study) and must pledge himself not to hold any position of emolument whilst holding the scholarship. He is recommended to the Commissioners by the Senate of the University. The scholarship may be held for a second year, if the report of the first year's work be satisfactory to the Commissioners. The scholar will, in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated, and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

The next recommendation will be made by the Senate in April, 1903.

Science Research Scholars recommended by Queen's University:—

Norman R. Carmichael, M.A., 1894-95.

Thomas L. Walker, M.A., 1896-7.

Frederick J. Pope, M.A., 1898-9.

Wm. C. Baker, M.A., 1900-1.

C. W. Dickson, M.A., 1901.

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### PRIZES.

These are prizes in money for literary articles, essays, etc., as specified under each particular prize, and are open to students of the present or preceding session.

CONDITIONS OF COMPETITION.—1. Competitive papers must be given to the Registrar not later than the 21st of March.

2. Each paper is to bear a motto, instead of the author's name, and must have attached to it a sealed envelope, bearing the same motto and containing a written declaration over the author's signature, to the effect that it is his unaided composition.

3. The envelope attached to successful papers shall be opened and the writer's name made known at the Convocation at the close of the session.

4. The best productions must be reported by the examiners to be of sufficient merit.

5. All successful productions shall be the property of the University, and be at the disposal of the Senate.

A.—LEWIS.

Value \$25. Given for the best lecture on Matt. IX, 18.

B.—GOWAN FOUNDATION NO. I.

Value \$25. Given by the Honourable Senator Gowan, C.M.G., LL.D., for the best essay on "The Nature and Scope of the Referendum."

C.—GOWAN FOUNDATION NO. II.

Value \$25. Given by the Honourable Senator Gowan, C.M.G., LL.D., for "The best Collection of Canadian Plants." The collection must be delivered before the 15th of December.

D.—GOWAN FOUNDATION NO. III.

Value \$25 in Books. Given by the Honourable Senator Gowan, C.M.G., LL.D. Given in Honours in Political Science.

E. LATIN AND GREEK COMPOSITION.

Two prizes, each of the value of \$10 in books, are offered for competition for the best composition in Latin and Greek prose respectively. Subjects for composition, 1902-1903: Latin prose Merivale's General History of Rome, C. LIV, "The position of Germanicus on the Rhine . . . which Tiberius might be expected to embrace." Greek prose: Grote's History of Greece, chap. XLVIII, "But the claims of patriotism, though put forward as essentially and deservedly paramount . . . maximum of encouragement."

F.—SPECIAL FRENCH AND GERMAN PRIZES.

Two prizes, each of the value of \$10 in books, are offered for the best examination in April in Senior French and Senior German respectively.

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## SCHOLARSHIPS IN ARTS AND PRACTICAL SCIENCE.

I.—THE CHANCELLOR'S PRACTICAL SCIENCE SCHOLARSHIP.

Value \$70. Given by Sir Sandford Fleming, C.E., K.C.M.G., LL.D., Chancellor of the University. Awarded to the Practical



Science student passing the best examination at the end of first year.

2.—SCHOLARSHIP IN CHEMISTRY.

Value \$50. Given by a graduate in Chemistry. Awarded annually to the student of any faculty who makes the best marks on an examination set, in April, upon the curriculum of the Senior Chemistry class. Candidates may have previously taken Preliminary Honour Chemistry. The holder of this Scholarship must proceed with the course in Honour Chemistry.

3.—THE ANN ELIZA STAFFORD SCHOLARSHIP IN ANIMAL BIOLOGY.

Value \$40. Founded by T. T. Bower, Esq., Toronto. Awarded to a graduate in first-class honours in Animal Biology who is competent to undertake research work in physiology. The holder must be willing to devote himself exclusively to research and must carry on his investigations in the University laboratories for at least one year from the date of his appointment.

4.—THE M. C. CAMERON SCHOLARSHIP IN GAELIC.

Value \$40. Founded by the late M. C. Cameron, M.P., Goderich. Awarded to the best Gaelic scholar, reader and speaker. The examination takes place after the September Matriculation examination. Work prescribed: Ossian's Fingal, Duncan Ban MacIntyre's Poems, Blackie's Language and Literature of the Scottish Highlands. Translation at sight of Gaelic into English and English into Gaelic. This Scholarship will not be awarded to any candidate who does not take at least 50 per cent. of the total number of marks in the examination.

5.—THE HIRAM CALVIN SCHOLARSHIP IN LATIN.

Value \$25. Given by Hiram Calvin, M.P., Kingston, to encourage the study of Latin in the University. Awarded on the result of the April examinations in Senior Latin, to the best student who is proceeding to the Honour Course in Latin. Not to be held by any student unless in actual attendance. Not necessarily to be awarded, unless a certain degree of merit is shown.

6.—THE MACLENNAN SCHOLARSHIP IN GREEK.

Value \$25. Given by Hon. Justice Maclennan, LL.D., Toronto, to encourage the study of Greek in the University. Awarded on the results of the April examinations in Senior Greek to the best student who is proceeding to the Honour Course in Greek. Not to be held by any student unless in actual attendance, and not necessarily to be awarded unless a certain degree of merit is shown.

7.—THE '01 FELLOWSHIP IN ENGLISH.

This Fellowship was established by the Class which graduated in 1901. It is awarded by the Senate to the student who is to act as Assistant Tutor in English during the following session.



## MEDALS.

University medals will be awarded to the candidates who obtain the highest number of marks in the Honour courses leading to the degree of M.A.

Candidates for medals will be required at the final examination to take all the Honour papers in the work of the courses which they select. No medal will be awarded to any candidate who fails to obtain three-fourths of the whole number of marks.

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## SCHOLARSHIPS IN THEOLOGY.

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### I.—MATRICULATION SCHOLARSHIPS.

#### 1.—DAVID STRATHERN DOW.

Founded in 1866 by David Strathern Dow, Esq., Whitby, Ont. Value \$75.

#### 2.—BUCHAN NO. 1.

Founded in 1875, by the late Rev. Alexander Buchan, Stirling, Ont. Value \$65.

#### 3.—BUCHAN NO. 2.

Founded by the late Rev. A. Buchan. Value \$55.

#### 4.—DOMINION.

Founded in 1870 by the late Walter Lawson, Scotland. Value \$70.

#### 5.—BUCHAN NO. 3.

Founded by the late Rev. A. Buchan. Value \$45.

#### 6.—M'INTYRE.

Founded in 1876, by Mrs. Margaret W. McIntyre, Perth, Ontario. Value \$20.

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### II.—SCHOLARSHIPS AWARDED AT CLOSE OF SESSION.

#### 1.—SARAH M'CLELLAND WADDELL MEMORIAL.

Founded in 1899, by Hugh Waddell, Esq., South Monaghan, Ont., in memory of his mother, Sarah McClelland. Value \$120. Awarded upon the Sessional Examination at the close of the first year in Divinity, Old and New Testament Exegesis, Church History and Elocution.

#### 2.—THE CHANCELLOR'S.

Given by Sir Sandford Fleming, C.E., K.C.M.G., LL.D., value \$70. Awarded to the student of the second year, who, while standing well in at least two classes in Theology, has in the opinion of the Faculty, taken the highest position during the year in Honour work in Arts.

3.—SPENCE.

Founded in 1879, by the late Rev. Alex. Spence, D.D., formerly minister of St. Andrew's Church, Ottawa. Value \$60. Awarded upon the Sessional Examination at the close of the first year in Divinity, Old and New Testament Exegesis, and Apologetics or Hebrew. Tenable during second or third year in Theology.

4.—LEITCH MEMORIAL NO. 2.

Founded in 1867, in memory of the late Principal Leitch, by subscribers in Scotland and Canada. Value \$80. Awarded upon a Sessional Examination, and tenable during three successive years, should the successful candidate, after the completion of his Theological curriculum at this University, continue his studies at this or any European University. Candidates must have the degree of B.A. The next competition will take place in 1903. Subjects of examination: The Epistles to the Romans and Hebrews in Greek, Psalms I-XXV in Hebrew, Butler's Analogy and the Divinity Lectures of the session.

5.—ANDERSON NO. 1.

Founded by the late Robert Anderson, Esq., Montreal. Value \$40. Awarded in first year Divinity.

6.—ANDERSON NO. 2.

Founded by the late Robert Anderson, Esq. Value \$35. Awarded in second year Divinity.

7.—TORONTO.

Founded by the Ladies' Association of St. Andrew's Church, Toronto. Value \$60. Awarded in second year Hebrew.

8.—ST. ANDREW'S CHURCH, TORONTO.

Given by the Session of St. Andrew's Church, Toronto. Value \$50. Awarded in Old and New Testament Exegesis.

9.—RANKINE.

Founded in 1881 by the late Alexander Rankine, Esq., Leamington, England. Value \$55. Awarded in Apologetics.

10.—GLASS MEMORIAL.

Founded in memory of the late Henry Glass, Esq., of Sarnia, by his widow. Value \$30. Awarded in Church History.

11.—MACKIE.

Given by the Rev. John Mackie, M.A., St. Andrew's Church, Kingston, to the student who passes the best examination on The Early Apologists. Value \$25 in books. May be taken by a student holding another scholarship.

12.—JAMES ANDERSON BURSARY.

Founded by the late James Anderson, Acton, Ont. Value \$25. Awarded by the Senate to a student who can preach in Gaelic.

**13.—WILLIAM MORRIS BURSARY.**

Founded by the late Hon. Alexander Morris, in memory of his father. Value \$50. Awarded by the Senate to a Divinity student taking a post-graduate course in the University.

**PRIZES AND SCHOLARSHIPS IN MEDICINE.**

**PRIZES.**

**1. At the end of the second session.**

Two demonstrators and four prosectors in Anatomy will be chosen by the Professor of Anatomy and the Lecturer on Practical Anatomy.

A prize of \$25 will be awarded to the student making the highest number of marks on this year's examination in Anatomy, Physiology and Materia Medica.

**2. At the end of the third session.**

Some standard work on Medicine (value \$10.00), presented by Dr. Geo. Hayunga, of New York, will be awarded to the student making the highest percentage of marks on the year's examination in Materia Medica, Therapeutics and Pharmacy.

**3. At the end of the fourth session.**

A prize of \$25.00 given by Dr. C. H. Clarke to the fourth year student passing the best examination on the subject of Mental Diseases.

**THE CHANCELLOR'S SCHOLARSHIP.**

Given by Sir Sandford Fleming, C.E., K.C.M.G., LL.D., Value \$70. Awarded to the student taking the highest percentage at all the examinations of the fourth year.

This scholarship is open only to students who take the examinations of the Ontario Medical Council and is tenable only on condition that the winner pursues the studies of the fifth year at Queen's as prescribed in the Calendar, or studies in Europe.

Candidates for this Scholarship must hand in their names to the Registrar before the examinations begin.

The student receiving this cannot hold it with the position of House Surgeon, but he may elect which he will hold.

**MEDALS.**

Two medals will be awarded as follows:

1. One medal to the final year student passing the best examination upon the following subjects:—Practice of Medicine, Clinical Medicine, Pathology, Bacteriology, Sanitary Science and Jurisprudence.

2. One medal to be awarded to the final year student passing the best examination upon the following subjects:—Surgery, Clinical Surgery, Obstetrics and Gynaecology, Medical and Surgical Anatomy.

### HOUSE SURGEONS.

Three House Surgeons will be appointed at the Kingston General Hospital, for twelve months each, from among the students taking the highest stand in the examinations of the year. Candidates for these appointments must have passed all previous examinations. These appointments must be approved by the Board of Governors of the Kingston General Hospital.

### ARTICLE V.—ONTARIO TEACHERS' CERTIFICATES.

1. Teachers' Certificates which are of sufficiently recent date will be accepted *pro tanto*.

2. Second Form, Primary, Public School Leaving, or Part I. Junior Leaving certificates will be accepted as the equivalent of Part I. Matriculation, and Second Class and Part II. Junior Leaving Certificates for Part II. Junior Matriculation, so far as the subjects correspond.

3. Any person presenting a Junior Leaving Certificate will be permitted to enter upon a University course, but in his first examination must include any two of Junior Latin, Greek, French or German.

4. First Class, Senior Leaving, or Form IV. Certificates will be accepted for Senior Matriculation, so far as they cover the subjects of Matriculation.

5. Any person presenting a Senior Leaving Certificate with Science option will be permitted to enter upon a University course, but with his first examination must include either Junior Latin, Greek, French or German.

\*6. Candidates who have taken forty per cent. on the Senior Matriculation or Senior Leaving papers in Latin, Greek, French, German, Mathematics, English, Chemistry, Physics, or Biology, will, on payment of the Senior Matriculation *pro tanto* fee not be required to take the University Junior class in the subject. As no student is allowed to pass more than five classes in a session, (see clause 5, article VIII) any one entering under this clause will not be exempt from more than five classes.

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\*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating when and where they wrote, and have their marks forwarded to the Registrar, who will advise them the classes allowed.

## ARTICLE VI.—EXTRA MURAL STUDENTS.

1. The Senate may, for special reasons, allow extra-mural students to enter upon the work of the Pass or Honour courses, and to present themselves for examination without attendance upon classes; but candidates for a degree must, before being registered, pass the Matriculation, or an examination accepted by the Senate as equivalent.

2. Extra-mural students must register and pay the registration fee of \$10 and the tutorial fees, if any, before University Day (October 16th). The Registrar will then send them class cards in the subjects upon which they propose to be examined in the following April or September. These cards must be forwarded at once to the Professors of the respective classes.

3. Extra-mural students must write the essays and exercises prescribed and send them to the Professors or Tutors of the subjects at the date specified. For information regarding essays and exercises, and the fees to be paid to the Registrar for assistance by Tutors appointed by the Professors and acting under their supervision, see the sections concerning extra-mural students in "Subjects of study for B.A. and M.A."

4. An examination may be held, on application from candidates who have complied with the above regulations, in any centre at which the Senate has appointed a presiding examiner or to which the University sends an examiner. In all cases the examination fee must be paid in advance by the candidates, and in addition a fee of \$2.00 for each local half-day examination.

5. Students must make application to the Registrar, at least three weeks before the beginning of the University examinations in April and September, for the papers on the particular subjects, as laid down in the Calendar, on which they propose to write.

6. Extra-mural students, taking only French, German, Botany or Animal Biology, may register on payment of \$5.

7. Oral examinations in Final Honour Moderns and practical examinations in Science must be taken at the University.

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**ARTICLE VII.—PERCENTAGE REQUIRED.**

To take Pass Standing, 40 per cent.

To take Third Class Honours, 50 per cent.

To take Second Class Honours, 66 per cent.

To take First Class Honours, 75 per cent.

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**ARTICLE VIII.—PASS COURSES LEADING TO DEGREE OF B.A.**

1. The course after Matriculation extends over four sessions. But students who take at least 40 per cent. in the Senior Matriculation or Senior Leaving examinations in at least four of Latin, Greek, French, German, English, Mathematics, Physics, Chemistry, Botany or Animal Biology, may complete their course in three years.

2. Pass and Honour examinations are held annually in April, and Pass examinations in September also.

3. The degree of B.A. will be conferred on candidates who take—

(a) Pass standing in the Pass classes and second or third class Honours in the Honour classes of any of the Honour courses, or

(b) Pass standing in the Pass classes and at least third class Honours in the Honour classes in either of the following Pass courses :

**COURSE I.**

A.—(1) Junior and Senior Latin.

(2) Junior and Senior Greek. (a) }  
(3) Junior and Senior French. } Any one.  
(4) Junior and Senior German. }

B.—(1) Junior and Senior English.

(2) Junior and Senior Philosophy.

(3) Junior History and Junior Political Science.

(4) Junior Mathematics.

C.—Any two of Junior Physics, Junior Chemistry, Botany, Animal Biology, Mineralogy, Zoology, Junior Hebrew.



D.—Any two of the following:

- (1) Senior History and Senior Political Science.
- (2) Junior and Senior Greek.\*
- (3) Junior and Senior French.\*
- (4) Junior and Senior German.\*
- (5) Senior Hebrew.
- (6), (7) Any two of Senior Mathematics, Senior Physics, Senior Chemistry and the classes not taken in C.
- (8), (9) Preliminary Honours (at least third class) in either Latin, Greek, French, German, History, Philosophy, Pol. Science, Physics, Botany, Animal Biology, Chemistry, Mineralogy or Geology.
- (10) Intermediate Honours (at least third class) in English.
- (11) Honours in Mathematics as specified under Honour Mathematics.
- (12) Final Honours (at least second class) in any class in (8), (10), (11).

\*Only for those who have not taken them.

(a) Students taking Greek will not be required to take one of the classes as in C.

#### COURSE II.

- A.—1. Junior Latin.  
2. Junior Greek.  
3. Junior French.  
4. Junior German. } Any two.

- B.—1. Junior and Senior English.  
2. Junior Philosophy.  
3. Junior and Senior Mathematics.  
4. Junior Physics.  
5. Junior Chemistry.

C.—Any two of: Botany, Animal Biology, Mineralogy, Geology, Senior Chemistry, Senior Physics.

D.—Any four of the following:

- (1) Senior Latin.
- (2) Senior Greek.
- (3) Senior French.
- (4) Senior German.
- (5) Junior Hebrew.
- (6) Junior and Senior History.
- (7) Junior and Senior Political Science.
- (8) Senior Philosophy.
- (9), (10) Any other two of those in C.

- (11), (12), (13), (14) Preliminary Honours (at least third class) in either Latin, Greek, French, German, History, Philosophy, Political Science, Physics, Botany, Animal Biology, Chemistry, Mineralogy or Geology.
- (15) Intermediate Honours (at least third class) in English.
- (16) Honours in Mathematics as specified under Honour Mathematics.
- (17) Final Honours (at least second class) in any class in (11), (15) or (16).

4. No student is allowed to take a Senior class before passing the Junior in the same subject.

5. No student is allowed to attend or pass more than five classes in any one year. A sixth class may be added if it be a subject in which he has already failed.

6. Students should take the pass classes in English, Classics, French, German and Mathematics in the first two years of their course.

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#### ARTICLE IX.—HONOUR COURSES.

1. *Students preparing for the position of High School Master are recommended to take one of the courses that qualify for Specialists' Certificates under the Departmental Regulations.*

2. The degree of M.A. will be conferred on students who take Pass standing in the Pass classes, and first class Honours in the Honour classes, in any one of the following courses.

3. The Degree of B.A. will be conferred on candidates who take Pass standing in the Pass classes, and second or third class Honours in the Honour classes of any one of the following courses:

##### 4.—COURSE A.—LITERATURE AND PHILOSOPHY.

###### PASS CLASSES.

A.—1. Junior and Senior Latin.

- 2. Junior and Senior Greek. (a)
- 3. Junior and Senior French.
- 4. Junior and Senior German.

} Any one.

B.—1. Junior English.

- 2. Senior English.
- 3. Junior Philosophy.

} Three.



- C.—1. Junior Mathematics.  
 2. Animal Biology.  
 3. Botany. } One.

- D.—1. Junior and Senior Greek.\*  
 2. Junior and Senior French.\*  
 3. Junior and Senior German.\*  
 4. Senior Philosophy.  
 5. Junior and Senior Political Science.  
 6. Junior and Senior History. } Any two.

#### HONOUR CLASSES.

1. Preliminary and Final Honour Latin.  
 2. Preliminary and Final Honour Greek.  
 3. Preliminary and Final Honour French.  
 4. Preliminary and Final Honour German.  
 5. Preliminary, Intermediate and Final Honour English.  
 6. Preliminary and Final Honour History.  
 7. Preliminary and Final Honour Political Science.  
 8. Preliminary and Final Honour Mental Philosophy.  
 9. Preliminary and Final Honour Moral Philosophy. } Any two.

(a) Students taking Greek will not be required to take the class in C.

\*Only for those who have not taken them.

#### 5.—COURSE B.—MATHEMATICS AND PHYSICS.

##### PASS CLASSES.

- Junior English.  
 Senior English.  
 Junior Mathematics.  
 Senior Mathematics.  
 Junior Physics.  
 Senior Physics.  
 Junior Philosophy. } Seven.
- Junior History.  
 Junior Political Science.  
 Senior Philosophy.  
 Junior Chemistry. } Any one.

PASS CLASSES—*Continued.*

Junior Latin.	}	Any two.
Senior Latin.		
Junior Greek.		
Senior Greek.		
Junior French.		
Senior French.		
Junior German.		
Senior German.		

One of the following Honour Groups :

1. Mathematics—Comprising Honour Mathematics, Preliminary Honour Physics and Practical Astronomy.
2. Physics—Comprising Preliminary and Final Honour Physics, subjects 1, 2, 3, 4, 5, 6, 7, of Honour Mathematics, and Descriptive Astronomy.

6.—COURSE C—SCIENCE.

PASS CLASSES.

Junior English,	}	Nine.
Senior English,		
Junior Mathematics,		
Senior Mathematics,		
Junior Philosophy,		
Junior Physics,		
Senior Physics,		
Junior Chemistry,		
Senior Chemistry,		
Junior Latin,	}	Any two.
Senior Latin,		
Junior Greek,		
Senior Greek,		
Junior French,		
Senior French,		
Junior German,		
Senior German,		
Senior Philosophy,		

One of the following Honour Groups :

1. Preliminary and Final Honour Chemistry and Preliminary and Final Honour Experimental Physics.
2. Preliminary and Final Honour Chemistry, with either Preliminary and Final Botany or Preliminary and Final Honour Animal Biology.
3. Preliminary and Final Honour Chemistry, Preliminary and Final Honour Geology, Preliminary and Final Honour Mineralogy.—Any two.

### *Specialists' Courses.*

7. By agreement with the Education Department, candidates taking either the M.A. or B.A. Degree under any one of the following Honour Courses will receive the non-professional qualification of Specialist.

8. The Degree of M.A. will be conferred on Students who take Pass standing in the Pass classes and first class Honours in the Honour classes in any one of the following courses.

9. The Degree of B.A. will be conferred on candidates who take Pass standing in the Pass classes and second or third class Honours in the Honour classes of any one of the following courses :

#### 10.—COURSE 1.—CLASSICS.

<i>Pass Classes.</i>	<i>Calendar Page.</i>
Junior and Senior Latin... ..	58
Junior and Senior Greek.... ..	60
Junior and Senior English.... ..	66
Junior and Senior Philosophy.... ..	75
Junior Mathematics.... ..	82
Junior History (Greek and Roman).... ..	59, 60

#### *Honour Classes.*

Honour Latin, Preliminary and Final.... ..	59
Honour Greek                   “                   “     .... ..	60

#### 11.—COURSE II.—ENGLISH AND HISTORY.

<i>Pass Classes.</i>	
Junior and Senior Latin.... ..	58
Junior and Senior Greek.... ..	60
Junior and Senior English.... ..	66
Junior Philosophy.... ..	75
Junior Mathematics.... ..	82
Junior History (Modern).... ..	71
Junior History (Greek and Roman).... ..	59, 60
Senior History.... ..	72

#### *Honour Classes.*

Honour English, Preliminary, Intermediate and Final....	68
Honour History, Preliminary.... ..	74

	Calendar Page
Honour Latin, Preliminary....	59
Honour Greek, Preliminary....	60

12.—COURSE III.—MODERNS (ENGLISH, FRENCH AND GERMAN) AND HISTORY.

*Pass Classes*

Junior and Senior Latin....	58
Junior and Senior Moderns....	62
Junior and Senior English....	66
Junior Philosophy....	75
Junior Mathematics....	82
Junior and Senior History (Honour percentage required)	71

*Honour Classes*

Honour English, Preliminary, Intermediate and Final..	63
Honour German, Preliminary and Final....	63
Honour French, Preliminary and Final....	64

13.—COURSE IV.—MATHEMATICS.

*Pass Classes.*

Junior Latin....	58
Junior Greek or Moderns....	60, 62
Junior and Senior English....	66
Junior Philosophy....	75
Junior and Senior Physics....	85
Honour Mathematics..	83

*Honour Classes.*

Preliminary Honour Physics, with Practical Astronomy..	88
Honour Mathematics.....	83

14.—COURSE V.—MATHEMATICS AND PHYSICS.

*Pass Classes.*

Junior Latin....	58
Junior Greek or Moderns....	60, 62
Junior and Senior English....	66
Junior Philosophy....	75
Junior and Senior Physics....	85
Junior and Senior Mathematics....	82

*Honour Classes.*

Preliminary Honour Physics, with Descriptive Astronomy	87
Final Honour Physics....	87
Honour Mathematics: No. 1, 2, 3, 4, 5, 6, 7....	83

# 15.—COURSE VI.—SCIENCE.

## *Pass Classes.*

	Calendar Page
Junior Latin.....	58
Junior French, German or Greek.....	60, 62
Junior and Senior English.....	66
Junior and Senior Mathematics.....	82
Junior and Senior Physics (Laboratory Practice in both)	85
Junior and Senior Chemistry.....	92
Botany.....	88
Animal Biology.....	89
Mineralogy.....	96
Geology.....	100

## *Honour Classes.*

Preliminary Honour Chemistry.....	94
Preliminary Honour Botany.....	88
Preliminary Honour Animal Biology.....	90

Together with any one of the following groups:

- (a). Final Honour Botany and Final Honour Animal Biology.
- (b). Experimental Honour Physics and Final Honour Chemistry.
- (c). Final Honour Chemistry and Preliminary and Final Honour Mineralogy.
- (d). And Preliminary Honour Mineralogy and Preliminary and Final Honour Geology.

16. Students intending to teach in Ontario are referred to the Calendar of the Ontario Normal College for information regarding Professional Examinations.

17. By a regulation of the Educational Department, any person who has spent two years as a registered student in post-graduate work at Queen's, may write at the final examination of the Ontario Normal College without attendance.

## ARTICLE X. SUBJECT OF STUDY FOR B.A. AND M.A.

### LATIN.

PROFESSOR—Walter J. Pike, B.A., (Cambridge).

ASST.-PROFESSOR—Rev. A. B. Nicholson, B.A.

TUTORS—A. Calhoun, T. H. Billings.

### JUNIOR CLASS.

Translation from specified books with questions on the Grammar and subject matter. Allen's Latin Grammar (Clarendon Press) is used in class.

Latin Prose Composition based on the books read and Fletcher & Henderson's Latin Prose Composition, sections 1-40.

A knowledge of Roman Antiquities from Ramsay's Elementary Manual.

Translation of simple Latin at sight: text book, Bendall and Lawrence's Graduated Passages for first sight translation, Pt. I, (Cambridge Press).

M. T. Ciceronis, Orationes pro Lege Manilia, pro Marcello, Philippica XIV, (Greenough & Kittredge).

Q. Horati Flacci Carminum, Libri III, IV.

P. Vergili Maronis Aeneidos, Liber III.

Extra-mural students are charged a fee of \$3 for the examination of the exercises to be done during the session. Lecture cards to be sent to the Rev. A. B. Nicholson.

### SENIOR CLASS.

Translation from the books specified with questions on the Grammar and subject matter.

Translation at sight: text book, Bendall & Lawrence.

Latin composition based on the books read and Fletcher & Henderson's Latin Prose Composition, sections 41—end.

Roman History and Literature from 14-180 A.D., in Merivale's General History of Rome, and Mackail's Latin Literature.

M. T. Ciceronis, Oratio Philippica I.

C. C. Taciti, Annalium Liber ii (Allen).

Prophetia Danielis, Vulgatae Editionis.

Selections from Latin poets, Crowell.

All students of this class should possess Harper's New Classical Dictionary, a Classical Atlas, Smith's Latin English and English Latin Dictionaries, and a good Grammar for reference such as that of Allen & Greenough, Harkness or Madvig. Those intending to take Honours should have Lewis & Short's Latin English Dictionary.

## HONOURS.

Candidates for Preliminary and Final Honours in Latin should note that special stress is laid on Composition and Sight Translation. Passages will also be set from the books specified below, good editions of which are recommended in each case, while the best plain text is the Teubner. The Roman History required from candidates for Specialist certificates is included in the Preliminary Honour examination and must be taken. The course comprises the History and Literature of Rome to the Death of Marcus Aurelius, as given in Merivale's General History of Rome, and Mackail's Latin Literature.

All students should have Lewis & Short's Latin Dictionary, Smith's English Latin Dictionary, Harper's New Classical Dictionary, a Classical Atlas and a good Grammar for general reference such as that of Madvig, Allen & Greenough or Harkness. Those taking History will find Matheson's Outline of Roman History, worked with Merivale, helpful.

### PRELIMINARY.

(This class must be taken at least one year before the final examinations. It may also be taken as a Pass class.)

M. T. Ciceronis pro L. Murena Oratio (Heitland).

M. T. Ciceronis de Natura Deorum Liber II (Stickney's Schoemann).

C. C. Taciti Annalium Libri I-IV (Allen).

P. Vergili Maronis Aeneis (Conington).

Q. Horati Flacci Carmina et Epistolæ (Page, Palmer, Wilkins).

D. J. Juvenalis Satiræ XIII (Pearson & Strong, second edition).

T. Lucreti Cari de Rerum Natura Liber V (Duff).

Remnants of early Latin, Allen.

### Final.

M. T. Ciceronis pro L. Murena Oratio (Heitland).

De Natura Deorum Liber II (Stickney).

Pro Rabirio Oratio (Heitland).

Epistolæ ad Atticum in Vol. I of Tyrrell's edition. (Teubner).

C. C. Taciti Annalium Libri I-VI. (Allen).

C. C. Taciti Historiarum Libri IV, V. (Spooner, Simcox).

Livi Historiarum Libri I, XXII. (Seeley, Capes).

M. T. Quintiliani Liber X. (Peterson).

Remnants of Early Latin (Allen).

P. Vergili Maronis Opera (Conington).

Q. Horati Flacci Opera (Page, Palmer, Wilkins).



D. J. Juvenalis Satiræ XIII (Pearson & Strong, second edition).

Q. V. Catulli Opera (Simpson's Selection).

T. Lucreti Cari Liber V. (Duff).

T. M. Plauti Miles Gloriosus (Tyrrell).

A. Persi Flacci Satiræ (Gildersleeve).

S. A. Properti Elegiæ (Postgate's Selection).

Extra-mural students of the Senior class and those taking Honours are charged a fee of \$5 for the examination of the exercises to be done during the session. Lecture cards to be sent to Professor Pike, who should be freely consulted on any question connected with the course.

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### GREEK.

PROFESSOR—Rev. J. Macnaughton, M.A.

ASST.-PROFESSOR—Rev. A. B. Nicholson, B.A.

TUTOR—G. R. Shelby, M.A.

### JUNIOR CLASS.

Greek Grammar.

Greek Composition. (Text book: Fletcher & Nicholson's *Elementary Greek Prose Composition*).

Translation from authors not specified.

Plato, *Lysis*.

Homer, *Odyssey IX*. (Merry), (Sikes).

Lucian, *Vera Historia I*. (Jerram).

Extra-mural students are charged a fee of \$3 for the examination of the exercises which they must do during the session. Lecture cards to be sent to the Rev. A. B. Nicholson.

### SENIOR YEAR.

Thucydides III, (Macmillan).

Homer, *Odyssey I-VI*, (Merry).

St. Paul, *Philippians*.

Greek Grammar and Composition.

Translation from authors not specified.

### HONOURS.

Candidates for Preliminary and Final Honours in Greek should note that special stress is laid on Composition and Unseen Translation. Passages will also be set for translation from the books specified below. The Greek History required from candidates for Special Certificates, is included in the Preliminary Honour Examinations and must also be taken.



Books recommended:

Murray, *Greek Literature*.  
Goodwin, *Greek Grammar*.  
Grote, *History of Greece*.  
Thirlwall, *History of Greece*.  
Hogarth, *Philip and Alexander*.  
Schuchhardt, *Schliemann's Excavations*.  
Jebb, *Homer*.  
Geddes, *Problem of the Homeric Poems*.

Instead of the editions mentioned below students may find it convenient to use the Teubner series.

*Preliminary.*

(The examination in this class must be taken at least one year before the final examination).

Thucydides III.  
Plutarch, *Solon, Pericles*.  
Homer, *Odyssey* I-XII (Merry).  
Euripides, *Orestes* (Wedd).  
Sophocles, *Antigone* (Jebb).  
Aristophanes, *Clouds* (Merry).  
Greek Grammar and Composition.

*Final.*

Herodotus VIII, IX.  
Thucydides III, VII.  
Demonsthenes, *De Corona* (Goodwin) and *Olynthiacs* (Glover).  
Plato, *Republic* V, VI, VII, (Campbell & Jowett).  
Aristotle, *Ethics*, I, II, X.  
Plutarch, *Solon, Pericles* (vol. I, Teubner).  
Homer, *Odyssey*.  
Aeschylus, *Agamemnon* (Sidgwick).  
*Prometheus* (Sikes & Wilson).  
Sophocles, *Ajax, Antigone* (Jebb).  
Euripides, *Medea*.  
Aristophanes, *Clouds* (Merry), *Knights* (Merry).  
Pindar, *Isthmians* (Fennell).  
Theocritus, *Selections*.

Extra-mural students of Senior and Honour Classes are charged a fee of \$5 for the examination of the exercises which they must do during the session. Lecture cards to be sent to Professor Macnaughton.

## COMPARATIVE PHILOLOGY AND SANSKRIT.

LECTURER—Rev. A. B. Nicholson, B.A.

1. A Course of Lectures on Greek and Latin Philology (one hour a week).

For reference: Henry's Comparative Grammar of Greek and Latin.

Brugmann's Comparative Grammar.

This course must be taken by all Honour candidates in Latin and Greek.

## GERMAN LANGUAGE AND LITERATURE.

PROFESSOR—J. Macgillivray, Ph.D. (Leipsic).

LECTURER—S. W. Dyde, M.A., D.Sc., LL.D.

TUTORS { Miss G. E. Jamieson, M.A.  
Miss I. M. Best, B.A.  
Mr. H. J. Foik.

### JUNIOR CLASS.

Carmen Sylva, Ein Gebet.

Paul Heyse, Vetter Gabriel (Steiger & Co.)

Baumbach, Der Schwiegersonn (Heath & Co.)

Ebner-Eschenbach, Die Freiherren von Gemperlein (Heath & Co.)

Elz, Er ist nicht eifersüchtig.

Wichert, Post Festum.

Translation from authors not specified.

Grammar.

Writing German from Dictation.

Oral and Written Composition and translation into German based on the books read.

### SENIOR CLASS.

Paul Heyse, Der Verlorene Sohn (Achter Band, V. Gesammelte Werke, Herz).

Spielhagen, Roschen vom Hofe.

Sudermann, Der Katzensteg (Heath & Co.)

Theodor Storm, Der Schimmelreiter.

Benedix, Die Hochzeitsreise (Heath & Co.)

Jentsch, Volkswirtschaftslehre, I-III, XIX.

Chamisso, Balladen, } Macmillan & Co.'s Balladenbuch,

Heine, Balladen, } (Golden Treasury Series.)

Translation from authors not specified.

Writing German from Dictation.

Translation into German from Otto's Materials, Part I.

Oral and Written Composition based on the works read.

## HONOURS.

### *Preliminary.*

(This class must be taken at least one year before the final examination. It may also be taken as a Pass class).

Flaischlen, Neuland (Selections).

Heyse, Novellen (Achter Band, V. Gesammelte Werke, Herz).

Stern, Geschichten von Deutschen Städten (pp. 9-104).

Schiller, Wilhelm Tell, Balladen (Macmillan's Balladenbuch).

Goethe, Balladen (Macmillan's Balladenbuch), Egmont.

Lessing, Nathan der Weise.

Oral and Written Composition based on the works read.

Outline of the History of German Literature, with special reference to Period VII (Kluge, Geschichte der Deutschen National-Litteratur).

### *Final.*

(Unabridged editions only are to be used).

Heyse, Novellen (Achter Band, V).

Flaischlen, Neuland.

Felix Dahn, Gelimer.

Freytag, Die Verlorene Handschrift.

Scheffel, Ekkehard, Der Trompeter von Säckingen.

Deutsches Balladenbuch (Macmillan & Co.)

Schiller, Don Carlos, Wallenstein, Maria Stuart, Die Jungfrau von Orleans, Wilhelm Tell.

Goethe, Faust, Egmont, Torquato, Tasso, Iphigenie.

Lessing, Nathan der Weise, Emilia Gallotti.

Braune, Gothische Grammatik (Ulphilas, Mark 3, 4, 5).

Wright's Primer of Old High German—Musspili, Das Ludwigslied, Otfrid's Evangelienbuch.

Wright's Primer of Middle High German—Hartman Von Ouwe, Walter von der Vogelweide, Das Niebelungenlied.

Behagel, Die Deutsche Sprache.

Kluge, Geschichte der Deutschen National-Litteratur.

Oral and Written Composition based on the works read.

Writing German from Dictation.

Translation into German from Otto's Materials I.

## LITERATURE.

Professor Dyde will meet the students in Preliminary Honour German two hours a week for the study of Goethe's Faust. One hour will be devoted to the text, and the second to lectures.

## ROMANCE LANGUAGES AND LITERATURE.

PROFESSOR—J. Macgillivray, Ph.D. (Leipsic).

Tutors { Miss G. Jamieson, M.A.  
          { Miss I. M. Best, B.A.

### FRENCH.

#### JUNIOR CLASS.

Ferdinand Fabre, L'Abbé Roitelet.

Anonymous, La Main Malheureuse (Heath & Co.)

Labiche, La Poudre aux yeux (Henry Holt & Co.)

Richebourg, Le Million du Père Raclot (Edward Arnold, London).

Spiers, Junior French Reciter (Edward Arnold).

Thé. Bentzon, Pousette (Contes de Tous Les Pays).

La Fontaine, Fables Livre I.

Grammar.

Writing French from Dictation.

Oral and Written Composition based on the works read.

#### SENIOR CLASS.

Thé. Bentzon, Contes de Tous Les Pays.

H. Gréville, Le Moulin Frappier (Macmillan & Co.)

Jules Verne, Voyage au Centre de la Terre (Arnold.)

George Sand, La Mare au Diable (Henry Holt & Co.)

About, Le Roi des Montagnes (Unabridged.)

Labiche, Le Voyage de M. Perrichon (Heath & Co.)

Augier, Le Gendre de M. Poirier.

La Fontaine, Fables, Livres I, II.

Translation from unspecified authors.

Translation into French Prose (V. Spiers).

Writing French from Dictation.

Oral and Written Composition based on the works read.

### HONOURS.

#### *Preliminary French.*

(The examination in this class must be taken at least one year before the final examination. It may also be taken as a pass class).

A Daudet, Lettres de mon Moulin.

Pierre Loti, Pêcheur d'Islande.

Balzac, Eugénie Grandet.

Victor Hugo, Ruy Blas.

Beaumarchais, Le Barbier de Séville.

Voltaire, Mérope.

Molière, L'Avare,

Corneille, Polyeucte.

La Fontaine, Fables IV-VIII.

Writing French from Dictation.

Oral and Written Composition based on the works read.  
Outline of the History of French Literature with special reference to the 17th, 18th and 19th centuries (Petit de Julleville).

### *Final.*

(Unabridged editions only are to be used).

- A. Daudet, *Tartarin sur les Alpes*, *Lettres de mon Moulin*.  
Pierre Loti, *Pêcheur d'Islande*.  
E. Zola, *La Débâcle*.  
About, *Roman d'un brave Homme*.  
Balzac, *Eugénie Grandet*.  
Victor Hugo, *Ruy Blas*, *Cromwell*, *Les Orientales*, *Les Misérables*, vol. I.  
Chateaubriand, *Atala*, *René*.  
Beaumarchais, *Le Barbier de Séville*.  
Voltaire, *La Mort de César*, *Mahomet*, *Mérope*.  
La Fontaine, *Fables*.  
Molière, *Les Précieuses Ridicules*, *Le Bourgeois gentilhomme*,  
*L'Avare*, *Le Misanthrope*.  
Racine, *Mithridate*, *Athalie*, *Iphigénie*.  
Corneille, *Le Cid*, *Pompée*, *Polyeucte*, *Horace*.  
Translation into French prose (V. Spiers).  
Oral and Written Composition based on the works read.  
Clédat, *Morceaux choisis des auteurs français du moyen âge*  
(*Vie de Saint Alexis*, *Chanson de Roland*, *Ami et Amile*, *Le Chevalier au Lion*, *Le Roman de Renart* [De Renart et de Tieceleon,] *Villehardouin*).  
Brachet, *Grammaire Historique de la Langue Française*.  
Petit de Julleville, *Leçons de Littérature Française*.

### ITALIAN.

- De Amicis, *Il più bel Giorno della Vita*.  
Del Testa, *Le Coscienze Elastiche*.  
Carcano, *La Nunziata*.  
L. Marengo, *Perchè al cavallo gli si guarda in bocca?*  
Tasso, *La Gersalemme Liberata*, I, II.  
Dante, *Inferno*, I-X.  
Writing Italian from Dictation.  
Translation from unspecified authors.  
Grammar (Grandgent).  
Translation into Italian (Grandgent's Italian Composition).  
History of Italian Literature (Snell's *Primer of Italian Literature*), (Macmillan & Co.)

### SPANISH.

(This class may be substituted for Italian).

- Valera, *El Pájaro Verde* (Ginn & Co.)  
Moratin, *El si de las Niñas* (Ginn & Co.)

Alarcón, El Capitán Veneno (Heath & Co.)

Calderon, La Vida es Sueno (Heath & Co.)

Cervantes, Don Quixote (Heath & Co.)

Edgren's Grammar (Heath & Co.)

Ford's Composition (Heath & Co.)

Writing Spanish from Dictation.

Outline of the History of the Literature.

**NOTE**—Extra-mural students of Modern Languages should obtain competent teachers for oral instruction as no candidate will be accepted who fails in the oral examination. Pass candidates may take the oral examination at outside centres, provided an examiner approved by the Senate be obtained; but Final Honour candidates must pass their oral examination at the University.

A tutorial fee of \$3 is required for each pass class and \$5 for each honour class.

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## ENGLISH LANGUAGE AND LITERATURE.

**PROFESSOR**—James Cappon, M.A.

**ASST.-PROFESSOR**—John Marshall, M.A.

**TUTOR**—Elizabeth M. McNab, B.A.

### JUNIOR CLASS.

1. Practical Course in Rhetoric and Composition.
2. Analysis of style in connection with the study of passages from Bacon, Addison, Johnson, De Quincey, Washington Irving, Macaulay, Ruskin.

The following texts (from which passages for analysis will be selected) may be procured from Maynard, Merrill & Co., New York, twelve cents each.

Bacon's Essays (Truth, Boldness).

Irving's Sketch-Book (Westminster Abbey, Visit to Shakespeare's Birthplace, Rip Van Winkle).

Macaulay's Essay on Boswell's Johnson.

Carlyle's Essay on Burns.

3. A detailed study (in class) on the following:

Chaucer, Prologue to Canterbury Tales. (The descriptions of the Knight, Squire, Prioress, Monk, Friar, Student, Merchant, Franklin, Doctor, Shipman, Parson).

Shakespeare, Julius Cæsar.

Longfellow, Prelude, Nuremberg, The Belfry of Bruges, The Skeleton in Armour, Amalfi, The Village Blacksmith, The Day is Done, The Secret of the Sea.

Tennyson, The Palace of Art, The Lady of Shalott, "Love Thou Thy Land," The Lord of Burleigh.

SENIOR CLASS.

I.

The following works will be read in class:

- (a) Shakespeare, *Macbeth*.  
Milton, *Paradise Lost*, Bks. I and II.
- (b) Dryden, Epistle to Mr. Congreve, the descriptions of Archi-  
topel and Zimri in *Absolom and Achitophel*.  
Alexander's Feast.  
Pope, Epistle to Arbuthnot (*Satires*). Essay on Man,  
Bks. I and IV.  
(Read Gosse, *Eighteenth Century Literature*, chaps. I, III,  
IV and IX, X, XI.  
Johnson, *Vanity of Human Wishes*.  
Gray, *Elegy*, Ode on Eton College.  
Collins, Ode to Liberty, Ode to the Passions.  
Goldsmith, *Deserted Village*.  
Burns, *The Cotter's Saturday Night*, *A Bard's Epitaph, To  
a Mouse*; *Lament of Mary, Queen of Scots*; *The Twa  
Dogs*; *The Auld Farmer's Salutation to His Mare*.

In addition an acquaintance with the following works is re-  
quired:

Macaulay, *Boswell's Life of Johnson*.  
Lowell on Pope (*My Study Windows*).

II.

Development of Poetry and Poetic Forms:

- (a) History of Poetry from Chaucer to Shakespeare.
- (b) Characteristics of Epic, Lyric and Dramatic Poetry.
- (c) The development of the Rhymed Couplet.
- (d) The development of the Ballad form.
- (e) The development of Blank Verse.
- (f) History of the Sonnet.

(The extra-mural student may consult Corson's *Primer of  
English Verse* and Gunmere's *Poetics*).

III.

- (a) Lectures on the History of the English Language.
- (b) Specimens of Early English (Morris & Skeat, Part II).  
Extracts I, (*Robert of Gloucester*) and VII, (*Cursor  
Mundi*).
- (c) For extra-mural students: O. F. Emerson's *History of  
the English Language* (Macmillan & Co.) chapters III,  
IV, V, VII, IX, X, XIII, XIV, XV, XVII, XVIII,  
XIX, XX, XXI, XXII.



HONOURS.

*Preliminary.*

1. Anglo-Saxon:—(Sweet's Anglo-Saxon Reader).  
Alfred's Preface to the *Cura Pastoralis*.  
Alfred's Translation of Boethius.  
Alfred's Translation of Beda (Account of the Poet Caedmon).  
Aelfric's Assumption of St. John.  
Aelfric's Life of King Oswald.  
Charters (Eadgifu).  
Extract from the Beowulf, lines 1-150.  
The Battle of Maldon.
2. Skeat, Principles of English Etymology (Chaps. VII, X, XI, XVIII, XIX, XXI).  
For extra-mural students: O. F. Emerson's History of the English Language (Macmillan & Co).
3. Ten Brink, Early English Literature, Book I.  
Morris & Skeat, Specimens of Early English Literature Extracts I and VII.

*Intermediate.*

- Tennyson, Ulysses.  
Bryon, Bride of Abydos, Childe Harold, Canto III.  
Cowper, Table Talk, Progress of Error, Task, Book I.  
Wordsworth, The Prelude, Books I, II, III, IV; the following poems from "Lyrical Ballads": The Thorn, Simon Lee, The Last of the Flock, The Mad Mother, The Idiot Boy, Expostulation and Reply, The Tables Turned, The Complaint of a Forsaken Indian Woman, Lines Written near Tintern Abbey, Hart Leap Well, There Was a Boy, The Brothers, Lucy Gray, Ruth, Lines Written Upon a Tablet, The Two April Mornings, Nutting, Three Years She Grew, The old Cumberland Beggar, Michael; the poems published as "Memorials of a Tour in Scotland (1803)"; the poems "dedicated to National Independence and Liberty," Part I; Yew Trees, She was a Phantom of Delight, I Wandered Lonely as a Cloud, Song at the Feast of Brougham Castle, Laodamia, Dion, Peter Bell, Fidelity, Ode to Duty, Character of the Happy Warrior, Ode on Immortality, Excursion, Book I.  
Coleridge, Monody on Chatterton, France, An Ode, To William Wordsworth, Christabel, Dejection, An Ode, Hymn in the Vale of Chamouni.  
Keats, Ode on a Grecian Urn, Ode to a Nightingale, Isabella, Lamia.



Shelley, *Alastor*, *Hymn of Pan*, *Adonais*, *Stanzas written near Naples*, *Hymn to Intellectual Beauty*, *Prometheus Unbound*.

Clough, *The Bothie, Through a Glass Darkly*, *Ah! Yet Consider it Again! Qua Cursum Ventus*.

Browning, (a) *Grammarian's Funeral*, *Andrea Del Sarto*, *Fra Lippo Lippi*, *Pictor Ignotus*, *The Bishop orders his Tomb*, *Bishop Blougram*, *How it Strikes a Contemporary*, *Epistle of Karshish*, *Cleon*; (b) *Abt Volger*, *Rabbi Ben Ezra*, *A Toccata of Galuppi's*, *The Laboratory*, *The Glove*, *Dis Aliter Visum*, *Youth and Art*, *Waring*, *The Englishman in Italy*, *Old Pictures in Florence*.

Arnold, *On Translating Homer*, *Essays on Wordsworth and Byron*, (*Essays in Criticism*, *Second Series*).

Carlyle *Sartor*, *Resartus*.

### *Final.*

#### A.

Ruskin, *Modern Painters* Vol. III, Part IV, Chaps. IV to XIII; (of the *False Ideal*, of the *True Ideal*, of *Finish*, of the *Pathetic Fallacy*, of *Classical Landscape*), *The Stones of Venice* (On the *Nature of Gothic*).

Carlyle, *Life and Letters of Cromwell*, [Introduction; The first Thirty-five Letters (Parts I and II); Letters CXXXIX and CXL, containing accounts of the *Battle of Dunbar* (Part VI); Letter CLXXXVII, The *Dismissal of the Rump* (Part VII).]

Scott, *Old Mortality*.

Emerson, *The Method of Nature*, *Literary Ethics* (*Essays and Orations*)

Arnold, *Essays in Criticism* (*First Series*).

De Quincey, *On Style* (*Historical and Critical Essays*).

Browning, *A Blot in the 'Scutcheon*.

Clough, *Religious Poems* (except *Fragments of the Mystery*), *Armours de Voyage*.

In addition the candidate is expected to understand the value of the following works, both as art, as interpretations of life, and to answer questions of a general nature on their style and methods:

Scott, *the Antiquary*, *Red Gauntlet*.

Thackeray, *Vanity Fair*.

Hawthorne, *The House of the Seven Gables*.

Carlyle, *Life of John Sterling*.

Emerson, *the American Scholar*.

#### B.

#### ROMANCE PHILOLOGY.

1. The poetry of Chaucer is the centre of studies in this course.

2. Origin and development of the octosyllabic couplet; origin and development of decasyllabic verse.
3. The Complaynte unto Pite, The Book of the Duchess, House of Fame, and the Legend of Dido (Legend of Good Women). Use Skeat's Edition of Chaucer's Minor Poems and The Legend of Good Women.
4. Development of the sonnet-form and its use by Petrarch, Spenser, Shakespeare, Milton and Wordsworth.
5. The structure of the stanza, in Provencal and Italian poetry, and in Chaucer.

Consult Ten Brink, Chaucer, Studien zur Geschichte seiner Entwicklung. Chaucer's Sprache und Verskunst.

Sandras, Etude sur Chaucer.

Schipper, Altenglische Metrik (Englische Metrik, Erster Theil).

Grober, Romanische philologie (Romanische Verslehre von E. Stengel).

Bartsch, Grundriss zur Geschichte der provenzalischen Literatur. Sections 1, 2, 3, 4, 5, 13, 14, 18, 21, 22, 23, 24, 25, 26, 27, 28, 30, 44, 48, 49, 50, 56.

Dante, De Vulgari Eloquio. Lib. 2.

### *For Extra-Mural Students.*

#### *Junior Class.*

Subjects of study the same as those for intra-mural students. A fee of \$3 is charged for tutorial assistance.

#### *Senior Class.*

Subjects of study the same as those for intra-mural students. A fee of \$5 is charged for tutorial assistance.

#### HONOURS.

The subjects of study for Honours are the same as those for intra-mural students. A corresponding class will be formed for the purpose of assisting the extra-mural students in intermediate and final honours of this department. The course will consist of extracts from Professor Cappon's lectures, selected chiefly for the purpose of suggesting methods of analysis and criticism, and accompanied by papers containing hints for study and prescribing themes for exercises and essays. This course is voluntary, and a corresponding tutor has been appointed to communicate with extra-mural students who may wish to take it.

A special fee of ten dollars will be charged for this course.

N.B.—Candidates who do not take the full course described above must at least take the part relating to exercises and essays. For this part alone the fee will be five dollars.

## HISTORY.

PROFESSOR—Rev. George D. Ferguson, B.A.

TUTOR—Ethel Mudie, B.A.

### JUNIOR CLASS.

#### *Medieval History.*

##### A.

Lectures on:

The Study of History, its methods and purposes.

The Fall of the Roman Empire and rise of new nationalities.

The Feudal System.

The Crusades.

The Struggle of the Towns in the Middle Ages for Independence.

The Growth of Monarchy, especially in France.

Students will also be examined on:

Hallam's Middle Ages, Chaps. I to VII.

Henderson's Historical Documents of the Middle Ages.

Books recommended to be read:

Gibbon's Decline and Fall of the Roman Empire.

Guizot's History of France.

Guizot's History of Civilization in Europe.

### SENIOR CLASS.

#### *English Constitutional History.*

Lectures on:

The development of representative government.

The British Constitution.

The Constitution of the United States.

The Canadian Constitution.

Students will also be examined on:

Hallam's Middle Ages, Chaps. VIII and IX.

Green's Larger History of the English People.

Bourinot's Constitution of Canada.

Books recommended to be read:

Freeman's Growth of the English Constitution.

Kingsford's History of Canada.

Bryce's American Commonwealth.

Fortnightly essays are required in each class.

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#### *For Extra-Mural Students.*

### JUNIOR CLASS.

Text- books: Hallam's Middle Ages, Chaps. I to VII.

Henderson's Historical Documents of the Middle Ages.

Students are also required to make themselves familiar with other books mentioned below, and to write essays in connection with them, which are to be given in punctually at the time stated.

*Essay*:—The growth of the Royal Power in France. Oct. 20th.

Hallam's Middle Ages, Chap. II.

Guizot's History of Civilization in France.

Guizot's History of France.

*Essay*:—Innocent III and the Hohenstauffen. Nov. 13th.

The Popes and the Hohenstauffen (Epochs of Church History Series).

Hallam's Middle Ages, Chap. V.

*Essay*:—The Lombard and the Tuscan Leagues. Dec. 4th.

The Tuscan Republics. (Story of the Nations Series).

Hallam's Middle Ages, Chap. III.

*Essay*:—The Influence of the Crusades on Europe. January 17th.

The Crusades, by Rev. G. W. Cox, M.A., (Epoch Series).

Prescott's Robertson's Charles V, Introduction on the progress of the History of Europe to the XVI century.

The Crusades (Story of the Nations Series).

*Essay*:—The Military Religious Orders in the Middle Ages and their influence. Feb. 3rd.

Woodhouse's Military Religious Orders.

Hallam's Middle Ages (Supplement).

Milman's Latin Christianity, Vol. V.

*Essay*:—The state of Europe just before the French Revolution. Feb. 18th.

The French Revolution and the First Empire, by S. R. Gardiner. (Epoch Series).

De Tocqueville's Ancient Regime.

Sorel, Europe et La Revolution Francaise Vol. I.

*Essays*:—The Congress of Vienna, March 12th.

Allison's History of Europe. 1st series, Chap. LXXVII.

Life and Correspondence of Prince Tallyrand, Part VIII.

#### SENIOR CLASS.

Text-books: Hallam's Middle Ages, Chap. VIII and IX.

Green's Larger History of the English People.

*Essay*:—The English Courts under the Anglo-Saxons, and the Curia Regis of the Normans. October 18th.

Hallam's Middle Ages, Chapter VIII.

*Essay*:—The Constitutional changes made in the reign of Henry II and Edward I. November 14th.

The Early Plantagenets, by Rev. W. Stubbs, D.D., Bishop of Chester. (Epoch Series).

*Essay*:—The formation of the House of Commons and the growth of Parliament. December 13th.

Hallam's Middle Ages, Chap. VIII, and Green's Larger History of the English People, Vol. 2nd.

Barnett Smith's History of the English Parliament.

*Essay*:—Cardinal Wolsey's Foreign policy. January 11th.

Froude's History of England.

Cardinal Wolsey, by Prof. M. Creighton—Bishop of London—(English Statesmen Series).

*Essay*:—Oliver Cromwell as a Statesman. February 12th.

Carlyle's Letters and Speeches of Oliver Cromwell.

Oliver Cromwell, by Fred Harrison. (English Statesmen Series).

Cromwell's Place in History, by S. R. Gardiner.

Oliver Cromwell, by John Morley.

*Essay*:—A comparison of the American Congress with the British Parliament. March 12th.

Bryce's American Commonwealth, Part I.

Bagehot's English Constitution.

### HONOURS.

#### *Preliminary.*

#### LECTURES ON THE GENERAL PRINCIPLES OF GOVERNMENT.

Students will be examined on:

Stubb's Constitutional History of England, vols. I, II and III. and Select Charters.

Gneist's English Constitution.

Guizot's Representative Government.

Rousseau's Social Contract.

Mills' Representative Government.

Books recommended:

Machiavelli's Prince.

Dicey's, The Law and the Constitution.

Hearn's Government of England.

Kemble's Anglo-Saxons in England.

#### *Final.*

Lectures:

(a) A comparison of the British Constitution with other constitutions, especially with that of the United States. (b) On the Government of Colonies. (c) On the Foreign Policy of Britain and Cabinet Government, and its relation to the other powers in the state.

Students will also be examined on:

Hallam's Constitutional History of England.  
May's Constitutional History.  
Bryce's American Commonwealth.  
Bagehot's English Constitution.  
Houston's Constitutional Documents of Canada.

Books recommended:

Todd's Parliamentary Government in England.  
Todd's Parliamentary Government in the British Colonies.  
De Tocqueville's Democracy in America.

Both Intra and Extra-mural Students in Honours are required to write the following essays, and in writing them to show some acquaintance with original authorities.

*Preliminary.*

1. The social and political positions of the Boroughs in England previous to the 14th century.  
Maitland's Township and Borough.  
Merewether and Stephen's History of Boroughs.
2. Domesday Book.  
Domesday Book, with Ellis' Introduction.  
Maitland's Domesday and Beyond.
3. The English Manor and Manorial Courts.  
Vinogradoff's Villianage in England.  
Maitland's Select Pleas in Manorial Courts, Selden Society, volume II.
4. Development of English Law down to the Tudors.  
Pollock and Maitland's History of English Law.  
Sir James Stephen's Introduction to Commentaries on the laws of England.  
Phillips Englische Reichs and Rechtsgeschichte, including Glanvils Tractatus de Legibus regni Angliae.  
Stubb's Constitutional History.

*Final.*

1. The Foreign Policy of England from Henry VII to the close of Queen Anne's reign.  
Seeley's Foreign Policy of England.  
Montague Burrow's History of the Foreign Policy of Great Britain.  
Heeren's Essay on the rise and growth of the Continental interests of Great Britain.
2. The Functions of the House of Lords.  
Pike's History of the House of Lords.  
Bagehot's Essay on the Functions of the House of Peers.

3. The Cabinet in its relations to the Sovereign, to the House of Lords and to the House of Commons.  
Torren's History of Cabinets.  
Bagehot's English Constitution.
4. Parliamentary Government in England and in the United States, especially as exemplified by the committees of the United States Congress.  
Bryce's American Commonwealth.  
Dicey's Law of the Constitution.  
Bagehot's, The English Constitution.  
Todd's Parliamentary Government.

Besides the Essays mentioned, frequent exercises will be prescribed in both Honour and Pass classes, based on the text-books, which the Tutor will carefully examine and submit to the Professor, and notes and suggestions will be offered which will afford assistance to the student. A fee of \$3.00 for the Junior Class, and \$5.00 for the Senior and Honour Classes, payable with the Registration fee not later than the 16th October, is required.

The books mentioned in connection with the prescribed essays are suggested as easily procured, and at little cost, but others of equal value may be substituted.

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### MENTAL AND MORAL PHILOSOPHY.

PROFESSOR OF MORAL PHILOSOPHY—John Watson, M.A., LL.D.

PROFESSOR OF MENTAL PHILOSOPHY—S. W. Dyde, D.Sc., LL.D.

TUTOR IN MORAL PHILOSOPHY—Rev. J. Sharp, M.A.

TUTOR IN MENTAL PHILOSOPHY—Rev. J. Sharp, M.A.

#### JUNIOR CLASS.

Ancient Philosophy—Professor Dyde.

Lectures on the method and aim of Philosophy. The history of Greek reflection. Study of Plato's *Theætetus* and Aristotle's *Ethics* (Peters' or Welldon's translation). Monday and Wednesday. Attendance and exercises are compulsory.

Books recommended to be read:

Plato, *Republic*; Wallace, *Epicureanism*; Carlyle, *Sartor Resartus*.

Modern Philosophy—Professor Watson.

Lectures on English Philosophy, Friday. Attendance and exercises are compulsory.



SENIOR CLASS—Professor Watson.

Text-book: Watson's *Outline of Philosophy with Notes Historical and Critical*. Supplementary Lectures. Tuesday and Thursday. Attendance and exercises are compulsory.

NOTE.—Candidates in Junior and Senior Philosophy, who do not pass the April or supplemental examination, must in the session in which they desire again to try the examination write the essays prescribed for extra-mural students, hand them in to the Tutor for examination and correction, and pay to the Registrar the tutorial fee of \$5.

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*For Extra-Mural Students.*

JUNIOR CLASS.

Students are expected to show familiarity with the substance of the books mentioned below. They are recommended to take up the work in the following order:

1. Schwegler, History of Philosophy, XI-XV.  
Plato, *Theætetus* (Dyde's Translation).  
Plato, *Republic*, Bks I, II.  
*Essay* for 15th Oct.:—The relation of Plato to the Sophists.
2. Plato, *Republic*, Bks. III, VII.  
Schwegler, History of Philosophy, XIV.  
*\*Essay* for 1st Nov.:—Plato's Theory of Education.
3. Aristotle, *Nichomachean Ethics*, (Peter's Translation).  
Schwegler, History of Philosophy, XVI.  
*Essay* for 21st Dec.:—The relation of Aristotle's *Ethics* to his Psychology.
4. Schwegler, History of Philosophy, XVII-XXI.  
Capes, *Stoicism* (New York: Fott Young & Co.)  
Wallace, *Epicureanism*.  
*Essay* for 1st Feb.:—Stoicism and Epicureanism.
5. Schwegler, History of Philosophy, XXII-XXVI.\*\*  
*Essay* for 15th Feb.:—The Principles of the Cartesian Philosophy.
6. Schwegler, History of Philosophy, XXVII, XXXV.  
Fraser, *Selections from Berkeley*.  
Fraser, *Berkeley* (Blackwood's Philosophical Classics).  
*Essay* for 14th March:—The development of the Philosophy of Berkeley.

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\*Nettleship's article on "Plato's Theory of Education" in *Hellenica* (Rivington's) is very valuable, but a knowledge of it will not be required.

\*\*See also Caird's article "Cartesianism," in the *Encyclopædia Britannica*.

For the examination, correction and return of the essays, a Tutor's fee of \$3 is charged. The essays are to be sent to the Tutor and the fee to the Registrar.

#### SENIOR CLASS.

Students will be examined upon Watson's "Outline of Philosophy, with Supplementary Notes, Historical and Critical," and "Hedonistic Theories." Weekly exercises will be prescribed, covering the whole of this work. These are compulsory and they will be examined and corrected by the Tutor, under supervision of the Professor. To compensate the Tutor, a special fee of \$5 is charged, which must be sent to the Registrar at the time of registration. The first exercise must be sent in by the middle of October.

#### HONOURS.

*Preliminary*—Professor Watson.

Critical Study of the Philosophy of Kant:

Text-books: Watson's Selections from Kant, and Caird's Critical Account of the Philosophy of Kant.

#### *Final.*

Students desiring to write for Honours in Latin, Greek, Moderns, English, History or Political Science may complete their Honour Course by taking any one of the following departments:

#### A. FIRST DEPARTMENT.

Critical study of the Philosophy of Kant. (See Preliminary Honour Class). Professor Watson.

#### *Special Classes for 1902-1903.*

Critical study of Hegel's *Wissenschaft der Logik*. Professor Watson.

English Philosophy in the 17th and 18th centuries. Professor Dvde.

Essays for the Class of English Philosophy:

15th Nov.: Relation of Locke to Hobbes.

20th Dec.: Green's Analysis of Locke. (Green's Introduction of Hume).

7th Dec.: Spencer's Unknowable. (Spencer's First Principles. Caird's Evolution of Religion, vol. I).

14th March: Bradley's Interpretation of the Absolute.

(Bradley's Appearance and Reality; a New Theory of the Absolute: *Contemp. Rev.* for November and December, 1894).

Candidates will be examined on the following works :

Kant, as in Preliminary Honour Class.  
Bacon, *Novum Organum*.  
Hobbes, *Leviathan*.  
Locke, *Essay on the Human Understanding*.  
Hume, *A Treatise on Human Nature*.  
Mill's *Logic*, Examination of Hamilton and Utilitarianism.  
Spencer's *First Principles*, *Data of Ethics*.

Books recommended to be read :

Bacon, *Essays and Advancement of Learning*; Spedding, the *Life and Times of Bacon*; Selections from Milton's *Prose Works*; Dryden *Religio Laici*, *The Hind and the Panther*; Pope, *Essay on Criticism*, An *Essay on Man*; Green, *Introduction to Hume*; Carlyle, *Heroes and Hero Worship*; Darwin, *Origin of Species*; Matthew Arnold, *Literature and Dogma*; Bradley, *Appearance and Reality*.

#### B. SECOND DEPARTMENT.

Critical Study of the Philosophy of Kant (See Preliminary Honour Class). Professor Watson.

#### *Special Classes for 1902-3.*

Lectures on the Philosophy of Aristotle. Prof. Watson.  
Greek thought with special reference to Plato's *Statesman*, *Sophist* and *Philebus*, and Aristotle's *Poetics*. Prof. Dyde.

Essays for Class in Plato :

- 15th Nov.: The Socrates of Plato and the Socrates of Xenophon. (Plato's *Dialogues*, Xenophon's *Memorabilia*).
- 20th Dec.: The Sophistic conception of the state. (Plato's *Protagoras* and *Republic II*, Aristotle's *Politics I*).
- 7th Feb.: Plato's Proof of the Existence of God. *Republic II, III, Laws, X XII*).
- 14th March: Aristotle's Definition of Tragedy. (Aristotle's *Poetics*, Bosanquet's *History of Aesthetic*).

Candidates will be examined on the following works :

Kant as in Preliminary Honour Class.  
Mill, *System of Logic*, Examination of Hamilton and Utilitarianism.  
Plato, *Theætetus*, *Republic*.  
Aristotle, *Organon*.

Books recommended to be read:

Campbell, Translation of Aeschylus; Whitelaw, Translation of Sophocles; Way, Translation of Euripides; Butcher, Aristotle's Poetics; Bosanquet, History of Aesthetic; Pater, Plato and Platonism; Wallace, Epicureanism; Maier, Die Syllogistik des Aristotles.

### C. THIRD DEPARTMENT.

Critical Study of the Philosophy of Kant. (See Preliminary Honour Class). Professor Watson.

#### *Special Classes for 1902-3.*

Critical Study of Hegel's Wissenschaft der Logik. Professor Watson.

Examination of Hegel's Philosophy of Right (Dyde's Translation), and Bosanquet's Philosophical Theory of the State. Professor Dyde.

Essays for Class in Hegel's Phil. of Right.

15th Nov.: Hegel's Theory of Crime and Punishment. (Phil. of Right, pp. 90-103; Bosanquet, Chap. VIII).

20th Dec.: Time and Dialectic. (Phil of Right, sections 3, 341-360, etc.)

7th Feb.: The Nature of Evil. (Phil. of Right, section 140).

14th Mar.: Religion and the State. (Phil. of Right, section 270).

Candidates will be examined on the following works:

Kant, as in Preliminary Honour Class.

Descartes, Discourse on Method and Meditation.

Leibnitz, Monadology.

Spinoza, Ethica, De Intellectus Emendatione.

Hegel, Wissenschaft der Logik, Philosophy of Religion, Philosophy of Right.

Books recommended to be read.

Caird, Hegel; Wallace, Hegel's Philosophy of Mind, Prolegomena to the Study of Hegel's Philosophy.

### MENTAL AND MORAL PHILOSOPHY.

Students desiring to write for Honours in Mental and Moral Philosophy may take A and B, A and C, or B and C.

Students taking the full course in Mental and Moral Philosophy will meet Professor Watson for the independent investigation of philosophical systems and theories.

Books recommended to be used, and essays:

See the several departments.

It is strongly recommended that candidates for Honours in Mental and Moral Philosophy should acquire a competent knowledge of German.

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### POLITICAL SCIENCE.

PROFESSOR—Adam Shortt, M.A.

TUTOR—W. W. McLaren, M.A.

#### JUNIOR CLASS.

The lectures will include a discussion of the general principles of Political Economy.

Text-book for general reference: Gide's Principles of Political Economy.

#### SENIOR CLASS.

The lectures will include a critical examination of the leading theories of the State, and a discussion of the nature of Social and Political Relations.

In both classes essays will be required.

Junior and Senior Political Science may be taken during the same session.

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### *For Extra-Mural Students.*

#### JUNIOR CLASS.

#### *Political Economy.*

Candidates will be examined on the following books:

Marshall's Economics of Industry.

Jevons' Money and Mechanism of Exchange.

Toynbee's Industrial Revolution.

#### *Essays during Session 1902-3.*

Relation of the economic to the social life. Marshall, Book I; Toynbee.

The growth of free industry. Marshall, Book I; Toynbee.

Rent, its nature and the conditions on which it depends. Toynbee, chap. 12; Marshall.

Trade Unions and their influence. Marshall, Book VI. Toynbee, chaps. 11 and 14.

Credit documents and their function in modern trade; Jevons.

Nature of Modern industrial organization. Marshall, Book IV; Toynbee.

The place of capital in production. Marshall, Book II; chap. 4; Book VI, chaps. 6, 7, 8.

A fee of \$3.00 is required.

### SENIOR CLASS.

#### *Theory of the State.*

Candidates will be examined on the following books:

Plato's Republic, Books I-VI..

Rousseau's Social Contract.

Leroy Beaulieu, The Modern State.

#### *Essays during Session 1902-3.*

Socrates' argument in support of Justice. Republic, Book I.

A comparison of the views of Plato and Rousseau as to the origin of the State. Plato Book II; Rousseau Book I.

A general examination of Plato's view of the State.

A general examination of Rousseau's view of the State.

The relations of individuals to society. Leroy Beaulieu; Rousseau.

Comparison of the Ancient and Modern State.

The function of the State. Leroy Beaulieu.

A fee of \$3.00 is required.

### HONOURS.

#### *Preliminary.*

This class will meet for the discussion of Economic, Social and Political Principles, and for the critical reading of portions of the works prescribed for Honours.

A course of lectures will be given on Canadian Economic and Political History.

Candidates will be examined on the following books :

*Political Economy.*

Smith's Wealth of Nations.  
Mill's Principles of Political Economy.  
Nicholson's Principles of Economics, vol. I.  
Ingram's History of Political Economy.

*Society and the State.*

Aristotle's Politics.  
Mill's Representative Government.  
Maine's Ancient Law.  
Carlyle's Sartor Resartus and Past and Present.  
Bosanquet's Philosophical Theory of the State.

*Final.*

This class will meet for the more detailed discussion of Economic, Social and Political Principles.

Candidates must show familiarity with the substance of the following books :

*Political Economy.*

Cunningham's Growth of English Industry and Commerce.  
Wells' Recent Economic Changes.  
Jevons' Money and Mechanism of Exchange.  
Seligman's Essays in Taxation.  
Brentano's, The Relation of Labour to the Laws of to-day.

*Society and the State.*

Bluntschli's Theory of the State.  
Holland's Elements of Jurisprudence.  
Arnold's Culture and Anarchy.  
Rae's Contemporary Socialism.

An essay embodying independent work in some section of the Honour Course will be required from every candidate for honours.

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**MATHEMATICS.**

PROFESSOR—N. F. Dupuis, M.A., F.R.S.C.

ASSISTANT—W. G. Fraser, M.A.

**JUNIOR CLASS.**

The theory and practice of *Algebra* to the Binomial theorem inclusive. Dupuis' *Algebra*—the first thirteen chapters omitting chapter XI.



*Geometry* of the point, line and circle in the plane. Parts I. and II. and selections from Part III. Dupuis' Plane Geometry.

Besides numerous class-exercises, periodical written exercises will be required.

#### SENIOR CLASS.

*Algebra*—Dupuis' Algebra, from the twelfth chapter to the end.

*Geometry*—Part III of Dupuis' Plane Geometry, and the first 131 pages of Dupuis' Solid Geometry.

*Trigonometry*—Preceding De Moivre's theorem.

Besides numerous class-exercises, periodical written exercises will be required.

#### HONOURS.

Candidates who matriculate with Honours in Mathematics are not required, in their subsequent Honour Course, to take either the Junior or the Senior Class, but they are advised to read the Geometry of the Junior Class.

Candidates who did not matriculate with Honours must take the Junior Class as preparatory to their Honour work, but they need not take the Senior Class inasmuch as the work of this class is covered in the first group of honour subjects.

The Honour work includes the following subjects.

#### Group I.

1. *Synthetic Modern Geometry*. Dupuis' Geometry, parts III, IV, V.
2. (a) *Algebra*—Dupuis' Algebra, from chapter XI to the end. Reference to Hall and Knight's Higher Algebra, the first twenty-seven chapters.  
(b) *Plane Trigonometry*, Preceding De Moivre's theorem, with various problems and applications. Hobson and Jessop's Plane Trigonometry.
3. *Elementary Co-ordinate Geometry*, through the Conics. Lectures, supplemented by examples from Charles Smith's Conics, and other sources.

#### Group II.

4. *Synthetic Solid Geometry*.—Dupuis' Solid Geometry.
5. (a) *Algebra*.—Hall and Knight's Higher Algebra, from chapter XXVII to the end.  
(b) *Trigonometry*, following De Moivre's theorem.
6. *Elementary, Differential and Integral Calculus*.—Reference to Edwards and Williamson.

*Groups III and IV.*

- A { 7. *Analytic Solid Geometry*.—Aldis' Geometry, supplemented by lectures and examples.  
8. (a) *Higher Differential Calculus*.—Edwards.  
(b) *Integral Calculus*.—Williamson.  
9. (a) *Finite Difference*.—Given by lectures and syllabus.  
(b) *Differential Equations*.—Johnson.
- B { 10. Spheric Trigonometry, Geodesy and Astronomy.  
11. (a) Determinants and Theory of Equations.  
(b) Quaternions. Kelland and Tait's Quaternions.  
12. Higher Conics and Curves. Salmon.

ARTS TIME-TABLE FOR CLASSES IN MATHEMATICS.

	X.	XI.	III.	IV.
Monday.		Syn. Solid Geometry.	Junior.	Syn. Modern Geometry.
Tuesday.	Senior.	Algebra and Trig. of Gr. II.		Algebra and Trig. of Group I,
Wednesday.	Differential and Integral Calculus Gr. III & IV.		Junior.	Analytical Solid Geometry.
Thursday.	Senior.	Calculus of Group II.	El. Co-ord. Geometry and Conics. Group I.	
Friday.	Diff. Eq. Final Diff. Gr. III & IV.			

Candidates who take group I as a part of their Pass Course, and who make a minimum of 33 per cent. upon each subject and 50 per cent. upon the whole group, may substitute this group for Senior Mathematics, together with any one of the optional subjects mentioned in course I and II, on pages 43 and 44.

Candidates for Honours must make a minimum of 40 per cent. upon each subject of group I, and 60 per cent. upon the whole group, at one examination, after which no further examination on this group will be required.

Candidates for Honours must make at least 50 per cent. upon the subjects numbered 4, 6 and 10, but honour standing will be determined by the examinations on the subjects numbered 5, 7, 8, 9, 11 and 12.

The subjects of Groups II, III and IV must be taken in not more than two examinations, and at any examination a candidate may offer any subject upon which he has failed at a previous examination. But 5, 7, 8, 9, 11 and 12 must be taken at the final examination.

A and B of Group III will be taken up in alternate years. B in 1902-03.

Candidates are recommended to follow the order of subjects as indicated above, as nearly as may be practicable.

Extra-mural students must pay for tutorial assistance—\$3.00 for each Pass Class or \$5.00 for any group of the Honour Classes.

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## PHYSICS.

PROFESSOR—D. H. Marshall, M.A., F.R.S.E.

ASSOCIATE PROFESSOR—N. R. Carmichael, M.A.

### JUNIOR AND SENIOR CLASSES.

Lectures and experiments are given in the following subjects:

#### *Properties of Matter.*

Extension—Inertia — Mass — Density — Gravitation—Specific weight—Weight of gases—Molecular forces—Energy.

#### *Dynamics.*

Kinematics—Statics of solids and fluids—Kinetics of solids and fluids.

#### *Heat.*

Thermometry—Calorimetry (Specific and Latent Heats)—Hygrometry— Transference of Heat (Conduction and Radiation)—Dynamical theory of heat.

#### *Magnetism.*

With special reference to terrestrial magnetism.

#### *Electricity.*

Frictional Electricity—Voltaic Electricity—Electro-Magnetism — Magneto-Electricity — Thermo-Electricity — Electro-Dynamics.

*Light.*

General Laws of Radiant Energy—Geometrical Optics—Physical Optics—Construction and use of Optical Instruments—Spectrum analysis.

*Sound.*

Propagation of Waves—Physical Theory of Music.

Algebra, Geometry, and Trigonometry are applied to the solution of problems, and weekly exercises are given throughout the session.

In the Junior Class the following subjects are principally studied:—Properties of matter, dynamics, heat, magnetism, and frictional electricity. In the Senior:—Dynamics, voltaic electricity, electro-magnetism, magneto-electricity, thermo-electricity, light, and sound.

Text-books:—Marshall's Introduction to the Science of Dynamics, new edition, published by R. Uglow & Co., Kingston. Price \$1.50; D. E. Jones' Elementary Lessons in Heat, Light and Sound (Macmillan & Co.), and Electricity Treated Experimentally by Linnaeus Cumming (Rivingtons, London).

The following books are recommended for consultation in connection with the lectures:

Gage's Principles of Physics, or Ontario H. S. Physics Part II.

Tait's Properties of Matter.

Balfour Stewart's Heat.

Silvanus Thompson's Electricity and Magnetism.

Taylor's Sound and Music.

Sound by E. Catchpool (Hinds & Noble, N. Y.)

Light, by R. W. Stewart (Hinds & Noble, N. Y.)

Deschanel's Natural Philosophy or Ganot's Physics.

Clerk Maxwell's Matter and Motion.

Chambers' Mathematical Tables.

Ames' Theory of Physics.

Hastings & Beach's General Physics.

NOTE.—Copies of all these works are kept in the Physical Laboratory and may be freely consulted by any student during the session.

Students who have not studied the Ontario High School Physics are recommended to do so, as questions from this work will be given at the monthly examinations.

Students in the Junior and Senior Classes are offered the privilege of experimenting in the Physical Laboratory under regulations to be explained at the beginning of each session.

The classes of Junior and Senior Mathematics should be taken if possible before the Physics classes.

HONOURS.

*Preliminary.*

Students should take Groups I and II of Honour Mathematics before entering this class.

The work will be a continuation of that done in the Junior and Senior, with applications of higher mathematics. Marshall's Dynamics, Part III, will be used as a text-book, (to be obtained at the Colloge, price 50c.) Also two or more of the following:

- Hick's Elementary Dynamics of Particles and Solids.
- Besant's Elementary Hydrostatics.
- Frost's, Newton's Principia.
- Clerk Maxwell's Theory of Heat.
- Tait's Thermodynamics.
- J. J. Thomson's Elements of Electricity and Magnetism.
- Cumming's Theory of Electricity.
- Aldis' Geometrical Optics.
- Lloyd's Wave Theory of Light.

For session 1901-02 the following will be read:

Besant's Hydrostatics—Clerk Maxwell's Theory of Heat—  
Hick's Dynamics—J. J. Thomson's Electricity and Magnetism.

*Final.*

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|---|---|---|
| A | { | 1. <i>Analytical Statics.</i>                                       |
|   |   | Todhunter's or Minchin's Analytical Statics.                        |
| B | { | 2. <i>Electricity and Magnetism.</i>                                |
|   |   | J. J. Thomson's Elements of the Mathematical Theory of Electricity. |
|   |   | 3. <i>Dynamics of a Particle and of a Rigid Body.</i>               |
|   |   | Tait and Steele's Dynamics of a Particle.                           |
|   |   | Pirie's Rigid Dynamics.   |
| B | { | 4. <i>Physical Optics.</i>  |
|   |   | 5. <i>Heat and Thermodynamics.</i>                                  |
|   |   | Clerk Maxwell's Theory of Heat.                                     |

6. Experimental work in the Laboratory.

Groups A and B are taken up in alternate years, group B in 1902-3.

PHYSICAL LABORATORY.

The Physical Laboratory is open daily during the session from 9 to 4 o'clock.

Instruction is given in experimentation; and facilities are offered for studying the construction and use of physical apparatus, and for doing independent and original work.

To take honours in Physics students are required to work in the laboratory for three sessions.

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**BOTANY.**

PROFESSOR—Rev. James Fowler, M.A.

*Pass Class.*

Class meets at 10 a.m. Lectures embrace the following subjects:

General morphology of the plant body, segmentation, symmetry, arrangement of lateral members of the common axis, branch systems.

Special morphology of the members, (1) Roots, different forms, duration, parasites; (2) Stems, their forms, climbing stems, &c.; (3) Leaf, phyllotaxis, venation, vernation, forms; (4) Trichomes, &c.; (5) Flowers; (6) Fruits; (7) Arrangements for close fertilization, Anatomy of plants (Histology), cell, cell-wall, protoplasm, Chlorophyll, starch, etc.; formation of new cell's tissues, system of tissues.

Study of specimens belonging to leading orders.

Text-book, Spotton's Canadian Flora.

Coulter's Plant Relations.

**HONOURS.**

*Preliminary.*

The class meets daily during the session at 11 a.m.

Careful study of Phænogamous plants of Canada, embracing about three hundred species, representing all available orders.

The subjects of Morphology and Histology are carefully studied with the aid of models, diagrams and microscopic specimens.

Physiology, elementary, constituents, plant-food, absorption, metabolism, respiration, transpiration, movements of water and gases, chemical processes, root pressure, bleeding, growth, effects of moisture, temperature, light, &c.

Laboratory work daily, consisting of study of specimens.

Essays are required on prescribed subjects:

Books for study and Laboratory work.

Gray's Structural Botany.

Bessey's Botany.

Gray's Manual.

Atkinson's Elementary Botany.

Barnes' Plant Life.,

Coulter's Plant Structures.

Clark's Practical Methods in Botany.

Students are required to bring at least two hundred specimens of plants for their own use.

### *Final.*

This class meets daily during the session at 11 a.m.

The first half of the session is devoted to the more extended and minute study of (1) Morphology and (2) Histology. The subject of Physiology is taken up during the second half.

Practical work in the laboratory consists in the careful examination of (1) Algae; (2) Fungi and Lichenes; (3) Bryophyta; (4) Pteridophyta; (5) Gymnospermae; (6) Gramineæ; (7) Cyperaceæ.

Essays are required on prescribed subjects.

Vines' "A Student's Text-book of Botany" must be read for examination.

Books for laboratory work and reference:

Gray's Manual.

Sach's Text-book of Botany.

Sach's Physiology of Plants.

Lesquereux and James' Mosses of N. America.

Tuckerman's Lichens.

Strasburger and Hillhouse's Practical Botany.

Arthur, Barnes and Coulter's Plant Dissection.

Kerner's Natural History of Plants.

Honour examinations are held at the University only.

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## **ANIMAL BIOLOGY.**

PROFESSOR—A. P. Knight, M.A., M.D.

TUTORS—A. B. Richardson, B.A. M.D., and T. T. Bower.

Students in medicine are required to take the Pass Class.

Students in arts who intend subsequently to study medicine are advised to take the Pass and Honour Classes, and thus complete their physiology and histology during their undergraduate course. The honour course in science, number 2, (with Animal Biology) page 54, or the specialists' course in science, page 57, is suitable for this purpose. The course in Biology and Public Health



for the Degree of B.Sc. in practical science, is also suitable for medical students.

### PASS CLASSES.

Lectures or demonstrations will be given tri-weekly at 9 A.M.

The lectures treat of protoplasm, cells, cell division, reproduction, early stages of development, tissues, organs, differences between animals and plants, general view of invertebrata and of vertebrata, organic evolution.

The laboratory work consists of such dissections and demonstrations as will elucidate the subject of the lectures. The lectures are illustrated by diagrams, charts, and lantern transparencies. Text-book, Wright's *High School Zoology*.

The senior leaving examination in biology of the Education Department is accepted in lieu of attendance and examination in this class.

### *Extra-Mural Students.*

Extra-mural students and students who do not attend the class lectures and demonstrations are required to do the practical work outlined for Honour Matriculation in Zoology. They will be examined on Professor Ramsay Wright's *High School Zoology*.

### HONOURS.

Candidates who have not matriculated with honours in biology and who intend to take an honour course in the subject must first take the pass class.

The course in Comparative and Practical Anatomy extends over two years, and the work of each year is read in class every alternate session.

Preliminary honours are awarded on the honour papers of the first session in honours.

Final honours are awarded on the honour papers of both sessions taken together.

The lectures and demonstrations in "physiology" and "histology" are attended simultaneously by students in medicine and arts. The honour work in physiology for the second year lasts during the whole session.

Graduation in honours in the department of biology lessens, by one year, the length of the course required by the Medical Council of Ontario.

Preliminary honours are accepted as equivalent to a pass class on a pass course, and final honours as equivalent to two pass classes.

SESSION 1902-1903, 12 M. to 1 P.M.

*Biology of Invertebrata.*

Examination of typical specimens of the different classes.

Histology and Embryology.

Physiology.

Daily laboratory work.

Dissections of all the forms in Huxley & Martin's text-book (last edition), and in addition, a grasshopper, star fish, or sea-urchin, squid, sponge, and hydroid.

SESSION 1903-1904, 12 M. to 1 P.M.

*Biology of Vertebrata.*

Study of types of the different divisions of Vertebrata.

Histology and Embryology.

Physiology.

Daily laboratory work.

Dissections of balanoglossus, a tunicate, amphioxus, a fish, frog, bird and mammal.

Books for study and laboratory work:

Test-book of Physiology, 2 Vols., edited by E. A. Schafer, LL.D.

Kirk's Hand-book of Physiology, 17th edition.

Claus and Sedgwick's or J. Arthur Thompson's Zoology.

Huxley and Martin's Practical Biology.

Parker's Zootomy.  
Brook's Hand-book of Invertebrate Zoology.  
Weidersheim's Elements of Comparative Anatomy.  
Foster & Langley's Histology, or Dr. Stirling's.  
Balfour & Foster's Elements of Embryology.  
Darwin's Origin of Species.

The Honour examinations in this department are held at the University only.

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### CHEMISTRY.

PROFESSOR—William L. Goodwin, D.Sc., Edin.

LECTURER—John Waddell, B.A., D.Sc., Ph.D.

DEMONSTRATORS—Isaac Wood, M.A., M.D.; J. W. Hazlett, B.A.; A. D. McRae, B.A.; F. H. McDougall.

### JUNIOR CLASS.

Monday, Tuesday and Thursday at 11 a.m.

Chemical Species—Crystals and Crystallization—Chemical Change—Laws of Combination—Relations of Heat to Chemical Changes—Notation—Equations—Nomenclature—Volume Relations of Gases in Chemical Change—Volume Formulas—The Atomic Theory—Descriptive Chemistry of the Commoner Elements and their Compounds—Electrolysis—Spectrum Analysis.

*Books:* Shenstone's Inorganic Chemistry (Edward Arnold, London); Waddell's Arithmetic of Chemistry (Macmillan & Co.), chapters I-V.

### SENIOR CLASS.

Thursday and Friday at 11 a.m.

1. Organic Chemistry.
2. Chemical Laws and Theories.
3. Special Chemistry of the Metals, their occurrence in nature, reduction and uses.

*Books:* Van Deventer's Physical Chemistry (J. Wiley & Sons).  
Bernthsen's Organic Chemistry (Blackie & Son, London).

Richter's Inorganic Chemistry, Chapters on Metals (P. Blakiston's Son & Co.)

Waddell's Arithmetic of Chemistry, Chapter VI to the end.

*Syllabus of Organic Chemistry.*

Calculation of Empirical formulae from percentage composition

—Determination of molecular weight from vapour density—  
Isomerism—Constitution of organic compounds—Rational  
formulae—Homologous series — Radicles — Classification—  
Optically active compounds—*Paraffins*, methods of prepara-  
tion, properties, nomenclature and isomerism—*Olefines*,  
methods of preparation and properties—*Acetylene Series*—  
*Monatomic saturated alcohols*, properties, methods of pre-  
paration of isomerism—Methyl and ethyl alcohols—Ethers,  
simple and mixed, methods of preparation and properties—  
Ethyl ether — *Thio-alcohols* and *thio-ethers* — *Compound*  
*ethers* or *esters*, preparation and properties—*Esters of nitrous*  
*acid*—*Nitro paraffins*—*Sulphonic acids*—*Cyanides and isocy-*  
*anides*—*Amines*—*Hydrazines*—*Phosphines*—*Arsines* — *Me-*  
*tallic compounds of the alcohol radicles*—*Aldehydes*—*For-*  
*mic aldehyde*—*Acetic aldehyde*—*Chloral* and *chloral hydrate*  
—*Ketones* — *Acetone* — *Fatty acids* — *Formic acid*—*Acetic*  
*acid*—*Fats and oils*—*Soaps*—*Hydroxy acids (oxyacids)*—  
*Lactic acid*—*Chlorides of the acid radicles*—*Acid anhydrides*  
—*Amides* — *Glycol* — *Glycerine*—*Nitroglycerine* — *Oxalic*  
*acid* — *Tartaric acid* — *Citric acid* — *Cyanogen com-*  
*pounds*—*Cyanogen*—*Hydrocyanic acid*—*Potassium cyanide*—  
*Double cyanides*—*Potassium ferrocyanide*—*Potassium ferri-*  
*cyanide*—*Halogen compounds of cyanogen*—*Cyanic acid*—  
*Potassium cyanate*—*Ammonium cyanate*—*Ethyl isocyanate*—  
*Potassium thiocyanate*—*Ammonium thiocyanate*—*Ethyl thio-*  
*cyanate*—*Allyl iso-thiocyanate*—*Urea*—*Carbamic acid*—*Am-*  
*monium carbamate*—*Thiocarbonic acids*—*Thiocarbamide*—  
*Carbohydrates*—*The grape sugar group*—*The cane sugar*  
*group*—*The cellulose group*—*Grape sugar*—*Fruit sugar*—  
*Cane sugar*—*Milk sugar*—*Malt sugar*—*Cellulose*—*Starch*—  
*Gums*—*Dextrine*—*Benzene Derivatives*—Differences between  
aromatic and fatty hydrocarbons—Isomeric relations—*Ortho-*  
*metal and para-derivatives*—Constitution of benzene—Occur-  
rence of benzene derivatives—*Modes of formation and pro-*  
*erties of benzene hydrocarbons* — *Benzene* — *Toluene* —  
*Xylenes*—*Mesitylene*—*Halogen substitution products*—*Nitro-*  
*substitution products*—*Amido-derivatives* — *Primary mona-*  
*mines*—*Aniline*—*Acetanilide* — *Diazo-compounds*—*Azo-com-*  
*pounds* — *Hydrazines* — *Phenols*—*Monatomic phenols*—*Car-*  
*bolic acid*—*Cresols*—*Hydroquinone* — *Pyrogallol* — *Quinone*  
—*Aromatic alcohols*—*Aromatic acids*—*Benzoic acid*—  
*Phthalic acids*—*Petroleum*—*Wood tar*—*Coal tar*.

The subjects in italics are to be studied not too much  
in detail, but with a view of observing the relations to

each other of the classes of compounds and the commoner general methods of formation.

Students intending to proceed to Honours in Chemistry are advised to begin Qualitative Analysis in the year in which they take Senior Chemistry.

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HONOURS.

*Preliminary.*

(May be taken as a Pass Class)

1. Organic Chemistry.

The student is expected to master the contents of Remsen's Organic Chemistry (latest edition).

Wednesday, Thursday and Friday at 3 p.m. (First Term).

2. Industrial Chemistry or \*Physiological and Pathological Chemistry.

Wednesday and Friday at 4 p.m.

3. Crystallography (Elementary). See Mineralogy.  
(First Term).

4. Qualitative Analysis and Blowpiping.

5. Qualitative Analysis of Minerals, &c., or \*Urinalysis, &c., (See page 98).

*Books:*

Remsen's Organic Chemistry (D. C. Heath & Co., New York).

Berthsen's Organic Chemistry (Blackie & Son, London).

Simon's Physiological Chemistry (Lea Brothers & Co., Philadelphia.)

Williams' Crystallography (Henry Holt & Co.)

Arthur S. Noyes' Qualitative Analysis (The Macmillan Co.)

Thorpe's Industrial Chemistry (Macmillan & Co.)

*Final.*

6. Physical Chemistry (1): Kinetic Theory of Gases; Properties of Solutions; the Periodic Law; Thermochemistry; Electrochemistry; Photochemistry.

Monday and Thursday at 3 p.m.

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\*This option is for students who intend to take a course in Medicine.

7. History of Chemistry.

Tuesday at 3 p.m. (Second Term).

8. Quantitative Analysis.

The minimum amount of work is comprised in Nos. 1, 2, 3, 4, 5, 6, 7, 8, 13 of Bolton's Quantitative Analysis.

Lectures on Thursday at 3 p.m. during part of the Session.

9. Assaying. (See page 99).

Subjects (1), (2) and (3) must be taken at one examination.

Subjects (6) and (7) must be taken at one examination.

*Books:*

Walker's Physical Chemistry (Macmillan & Co.)

Ostwald's General Chemistry (Macmillan & Co.)

Meyer's Modern Theories of Chemistry.

Ladenburg's History of Chemistry (W. F. Clay, Edinburgh).

Rodwell's Birth of Chemistry (Macmillan & Co.)

Bolton's Quantitative Analysis (J. Wiley & Sons).

*For Extra-mural Students*

Tutors are appointed to give assistance by correspondence to Extra-mural students taking classes in Chemistry, Mineralogy and Geology. The tutorial fee for any one of the three subjects is \$5; and for more than one, \$10. The fees are to be paid by all the Extra-mural students taking these subjects. Assistance is given in both the practical and theoretical parts of the subject.

Extra-mural students are required to do promptly the work set by the Tutor, and will not be admitted to examination until this work is completed.

JUNIOR.

*Books to be Read:*

Shenstone's Inorganic Chemistry (Edward Arnold, London).

Waddell's Arithmetic of Chemistry (Macmillan & Co., New York), Chapters I-V.

SENIOR.

*Books to be Read:*

Van Deventer's Physical Chemistry (J. Wiley & Son, New York).

Waddell's Arithmetic of Chemistry, Chap. VI to end.

Bernthsen's Organic Chemistry (Blackie & Son, London).

(See syllabus).

Richter's Inorganic Chemistry (P. Blakiston's Son & Co., Philadelphia). Chapters on Metals.

The work in *Bernthsen* and *Richter* is to be selected under the guidance of the tutor.

*For Students in Medicine.*

*First Year.*

Monday, Tuesday and Wednesday, at 11:00 a.m.

The Lectures and Laboratory practice of the Junior Arts Class.

*Second Year.*

Thursday and Friday at 11.00 a.m.

*First Term.*—Organic Chemistry (Senior Arts Class).

*First and Second Term.*—Physiological Chemistry (Dr. Wood).

*Second Term.*—Chemistry of Metals (Senior Arts Class). Optional.

*Analytical Chemistry.*

N.B.—Before taking this class students must pass the examination in Junior Chemistry.

*First Term.*—Monday, Tuesday and Wednesday at 11.00 a.m.

Systematic Testing of Chemical Substances.

Use of the Blowpipe.

Chemical Toxicology.

*Second Term.*—Monday, Tuesday and Wednesday at 11.00 p.m.

Urinalysis.

Physiological Chemistry.

Analysis of Milk and Water.

*Books:*

Shenstone's Inorganic Chemistry (P. Blakiston's Son & Co., Philadelphia).

Attfield's Chemistry.

Bernthsen's Organic Chemistry, translated by George McGowan, Ph.D.

Simon's Manual of Chemistry (Lea Brothers & Co., Philadelphia).

The Urine, the Common Poisons and the Milk, by Professor J. W. Holland.

Leffman & Beam's Water Analysis.

*Junior, Senior and Preliminary Honours* of the Arts course cover all the Chemistry required of students of Medicine.

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**MINERALOGY.**

PROFESSOR—Wm. Nicol, M.A.

DEMONSTRATOR—F. H. McDougall.

Students in Mineralogy are expected to take part in the field excursions, held during the fall term. The cost of the field work will not exceed five dollars.



Pass and Preliminary Honours may be taken in one year by students in Honours.

Divisions one and two of Pass Class are required of students in Geology.

Students intending to take Mineralogy are advised to take Junior Chemistry, Junior Physics, and the lectures on crystallography before commencing it.

In addition to essays and correspondence, extra-mural students are required to determine and describe the minerals in collections furnished by the demonstrator.

Examinations are held only at the University.

### *Pass.*

1. Elementary Mineralogy.

2. Description and determination of the following minerals:

Graphite, native silver, native gold, native copper, stibnite, molybdenite, galenite, chalcocite, malachite, azurite, sphalerite, niccolite, pyrrhotite, bornite, chalcopyrite, pyrite, arsenopyrite, halite, fluorite, quartz and prin. vars, corundum, hæmatite, magnetite, chromite, pyrolusite, limonite, calcite, dolomite, siderite, orthoclase, plagioclase, pyroxene and vars, olivine, amphibole and vars, garnet, tourmaline, stilbite, muscovite, biotite, serpentine, talc, sphene, zircon, staurolite, apatite, barite, celestite, gypsum, coal and vars.

*Text-books:* Dana's Minerals and How to Study Them, 2nd Ed. (Wiley & Sons).

Crosby's Tables for the determination of Common Minerals.

3. Elementary Crystallography.

A course of fifteen lectures delivered at the opening of the session, at 8 o'clock a.m. on Mondays, Tuesdays, Wednesdays and Thursdays.

*Text-Book:* Williams' Crystallography. (Henry Holt & Co.)

4. Blowpipe Analysis—(a) A course of practical demonstrations to illustrate and explain the reactions in studying the chemical properties of minerals. (b) A practical class in which the experiments seen in the lectures are performed by the students (two hours per week. Friday 1-3 p.m.)

*Text-book:* Chapman's Blowpipe Practice, 2nd Ed. (Copp Clark Co., 1893).

### *Books for Reference:*

Cornwall's Translation of Plattner's Manual of Qualitative and Quantitative Analysis with the Blowpipe, 7th Ed. (Van Nostrand Co.)

Brush and Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis, 1899.

Cornwall's Manual of Blowpipe Analysis (Van Nostrand Co.)  
Landauer's Blowpipe Analysis.  
Endlich's Manual of Qualitative Blowpipe Analysis.  
Moses & Parsons' Mineralogy, Crystallography and Blowpipe Analysis, 2nd Ed.

*Students must supply their own blowpipe apparatus.*

HONOURS.

*Preliminary.*

(May be taken as a Pass Class).

1. Systematic Mineralogy, illustrated by specimens, charts, lantern-slides, etc. Monday, 2 p.m.; Wednesday, 11 a.m.

*Text-books:* Dana's Text-book of Mineralogy, 1899 (Wiley & Sons).

*Books for Reference:*

Naumann-Zirkel's *Mineralogie*.  
Tschermak's *Mineralogie*.

2. Practical Crystallography.

Practical study of crystal forms by means of crystals, and wire and wooden models. Tuesday and Thursday, 10 a.m.

*Text-book:* Williams' Crystallography (Henry Holt & Co.)

3. Qualitative analysis of minerals by blowpipe and wet reagents:—The course in Qualitative Analysis in connection with Preliminary Honour Chemistry and, in addition, the analysis of selected mineral samples to be secured by the students individually from the Professor.

Lectures on Qualitative Analysis.

*Text-book:* Fresenius' Qualitative Analysis.

*Books for Reference:*

Ostwald's Foundations of Analytical Chemistry (Macmillan & Co.)

Menschutkin's Analytical Chemistry, (Macmillan & Co.)

4. Essays on prescribed subjects.

*Final.*

1. Descriptive Mineralogy.

Description and classification of the commonly occurring minerals special attention being given to Canadian ores and rock-forming minerals. Monday, 8 a.m.

*Text-book:* Dana's System of Mineralogy, 6th Ed. (Wiley & Sons).

*Books for Reference:*

Chapman's Minerals and Geology of Ontario and Quebec, 3rd Ed. (Copp Clark Co.)

Commissioners' Report on Mineral Resources of Ontario, 1890.  
Reports of the Bureau of Mines, 1891-1901.

Reports of Geological Survey.

English's Catalogue of Minerals.

2. Determinative Mineralogy.

Practical instruction in the determination of minerals by means of the blowpipe and by field tests. Wednesday, 8-10 a.m.  
Examination of specimens from cabinets.

Thursday and Friday, 8 a.m.

*Text-books:* Brush & Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis (1899).

Crosby's Tables for the Determination of Common Minerals.

3. Quantitative Analysis of Minerals (selected samples).

*Text-book:* Fresenius' Quantitative Analysis.

Lectures on Quantitative Analysis.

4. Economic Geology. (See under *Geology*).

5. Petrography. (See under *Geology*.)

6. The use of heavy solutions in separating minerals for rock-analysis.

7. Assaying.

The assaying of gold, silver, iron, copper, lead, zinc and nickel ores, by furnace, wet, and electrolytic methods.

*Text-books:* Chapman's Assay Notes, 2nd Ed. (Copp Clark Co.)

Brown's Manual of Assaying, 7th Ed. (Sargent & Co.)

Blair's Chemical Analysis of Iron, 3rd Ed. (J. B. Lippincott Co.)

Rickett's and Miller's Notes on Assaying. (Wiley & Sons).

Miller's Manual on Assaying (Wiley & Sons).

*Books for Reference:*

Beringer's Text-book on Assaying (C. Griffin & Co.)

Bodeman & Kerl's Assaying.

Furman's Manual of Practical Assaying, 2nd Ed. (Wiley & Sons).

8. Use of Reflecting Goniometer.

9. A course of lectures on economic mineralogy. These lectures will be illustrated by lantern slides and will be delivered at hours convenient for the class.

10. Essays to be handed in as follows:

Oct. 31st, 1902—The Diamond.

Nov. 28th, 1902—The Copper Ores of Canada.

Dec. 20th, 1902—Selenium and Tellurium in Canadian Minerals.

Jan. 30th, 1902—Mica Mining in Ontario.

Feb. 27th, 1903—

Sir William Logan.

Dr. T. Sterry Hunt.

Dr. E. J. Chapman.

March 30th, 1903—Mineralogical Nomenclature.

The professor reserves the right to retain for the department essays of merit.

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**GEOLOGY.**

PROFESSOR—Willet G. Miller, M.A.

DEMONSTRATOR—M. B. Baker, B.A.,

Students taking work in this department have access to the museums of Queen's University and the School of Mining.

The petrographical laboratory is supplied with electric power, diamond saws and other apparatus required in the preparation of thin sections of rocks and minerals for examination under the microscope.

The microscope room is provided with several instruments of the latest and most approved designs.

A corresponding tutor has been appointed to communicate with extra-mural students.

*Pass.*

(Students taking Geology are advised to take Mineralogy I).

The following themes will be treated of in the lectures: The planetary relations of the earth; the atmosphere; water; solid crust; probable nature of the earth's interior; rocks, their general megascopic and microscopic characters and classification; volcanic action; earthquakes; upheaval; subsidence; geological effects produced by heat, air, water and life; bosses; dykes; veins; stratification; dip; strike; anticline and syncline; faults; foliation; nature and uses of fossils; stratigraphical geology; outline of geological history; economic geology, etc.

The lectures are illustrated by means of maps, diagrams, and lantern views.

The laboratory work will consist of the examination of typical specimens of the different groups of fossil plants and animals, and of hand specimens of the more common rocks.

During the months of October and November excursions will be made to places of geological interest in the vicinity of Kingston. All Students are expected to join these excursions. The cost will not exceed five dollars.

Essays are required on prescribed subjects.

Students are expected to provide themselves with some elementary book on the subject. W. B. Scott's "Introduction to Geology," (the Macmillan Co., price \$1.90) is recommended.

*Books for reference :*

Dana's Manual of Geology.

Le Conte's Elements of Geology.

Chapman's Minerals and Geology of Central Canada.

Kemp's Hand-book of Rocks.

Extra-mural students are advised to read Le Conte's Elements of Geology (last edition), or Geikie's Text-book of Geology. They will also be required to write essays on prescribed subjects.

Students who are not taking Mineralogy are advised to pay particular attention to Chapter I of Scott's Geology, and to provide themselves with a collection of the principal rock-forming minerals.

HONOURS.

*Preliminary.*

(May be taken as a Pass Class.)

(Students taking Preliminary Honour Geology are required to take or to have taken Crystallography in Senior Chemistry).

Lectures on :

Physical Geography, Petrography and Palæontology.

The laboratory work will consist of the preparation of thin sections of minerals and rocks and their microscopic determination.

The museum work will consist of the macroscopic determination of rocks and the naming and classification of Canadian fossils.

Field work. Essays are required on prescribed subjects. Candidates will also be examined on the following :

Page's or Geike's Physical Geography.

Chapman's Minerals and Geology of Central Canada, Part IV.

Dana's Manual of Geology.

Luquer's Minerals in Rock Sections.

Kemp's Hand-book of Rocks.

*Books for Reference :*

Wood's Elementary Palæontology.

Harker's Petrology for Students.

Dana's Text-book of Mineralogy.

Cole's Aids in Practical Geology.

Students are advised to devote as much time as possible to field work during the preceding long vacation, and to collect material for study in the laboratory during the winter. Opportunities will be offered advanced students for engaging in field work during the summer vacation.

*Final.*

Lectures on:

Petrography.

Palæontology.

Geology of Canada.

Geology in its relations to Mining and Agriculture.

Construction of Geological Maps and Sections.

Laboratory, Museum and Field work.

Candidates will also be examined on the following :

Geike's Text-book of Geology.

Geike's Field Geology.

Chapman's Minerals and Geology of Central Canada, Parts IV and V.

Dawson's Hand-book of Canadian Geology.  
Geike's Founders of Geology.  
Branner & Newson's Syallabus of Economic Geology.  
Kemp's Ore Deposits of the United States.

*Books of Reference:*

Rosenbuch's Microscopical Physiography of Rock-Forming Minera  
Zirkel's *Petrographie*, Vols. I, II, and III.  
Harker's Petrology for Students.  
Nicholson's Palæontology.  
Dawson's Ice Age in Canada.  
Wright's Ice Age in North America.  
Phillips' Ore Deposits.  
Williams' Geological Biology.

Students are advised not to undertake the work in Final Honour Geology until they have acquired a sufficient knowledge of Chemistry and Mineralogy. They should be prepared to devote a large part of their time to the subject throughout the session. Each member of the class will be encouraged to undertake research work, for which the surrounding district offers exceptional opportunities.

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**MUSIC.**

THEORY OF MUSIC.

During the season of 1901-2 an elementary course of lectures, one hour per week, was given upon the Theory of Music. This course will be repeated in session 1902-3, commencing on October 9th at 2 p.m., in the Physics class room. The subjects taken up are as follows:

(1) *Physics*—The nature and production of sounds and musical notes, waves, harmonics, musical instruments, etc., illustrated by experiments.

(2) *Harmony*—The harmonic series, construction of scales and chords, melodic and harmonic progression, use of the common chords and their inversions, dominant sevenths and the more common fundamental discords, modulations, suspensions, auxiliary notes, analysis of hymn tunes.

(3) *Form*—Rhythm, structure of phrases and sentences, Prout's *Harmony, Its Theory and Practice* is used as a text-book, and *The Presbyterian Book of Praise* to furnish illustrations.



EVENING LECTURES.

During the session 1901-2 five evening lectures, illustrated by appropriate musical selections, chiefly by members of the Kingston Ladies' Musical Club, were given upon the following subjects :

JOSEPH GOULD, Montreal—"The Scope and Limitations of Music."

MRS. HARRISON (Sevanus), Toronto—"Folk Music."

DR. C. K. CLARKE, Rockwood Hospital—"The Violin—a short account of its History and Structure."

MISS LICHTENSTEIN, McGill University. Montreal—"Bach."

DR. GOODWIN, Queen's University—"The Nature of Music and the Music of Nature."

The subjects of evening lectures and names of lecturers for session 1902-3 will be announced at the opening of the session.

## ART. XI—POST-GRADUATE DEGREES.

### DOCTOR OF LAWS (LL.D.)

This degree is honorary, and is awarded for literary, scientific or professional distinction.

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### DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.) AND DOCTOR OF SCIENCE (D.Sc.)

1. Candidates for these degrees must have previously taken the Degree of M.A. in the subjects they propose to offer, or must satisfy the Senate of their ability to proceed with the course.

2. Neither of these degrees can be obtained in less than four years from the date of graduation as M.A.

3. Candidates must give notice in writing to the Senate of the course they intend to take, at least two years before they present themselves for examination.

4. All candidates must submit a thesis of some subject connected with their special course, embodying the results of original investigation.

### I. DEGREE OF Ph.D.

#### *I. Course for Degree of Ph.D. in Classics.*

Candidates for the Degree of Ph.D. in Classics will be examined on:

- (a) The General History of Greece.
- (b) The General History of Rome.
- (c) A special period of Greek History to be studied in detail, mainly from original authorities.
- (d) A special period of Roman History to be studied in detail, mainly from original authorities.
- (e) Plato *Republic* and Aristotle *Nicomachean Ethics*.
- (f) Aristotle *Politics*.

The period of Greek History selected is, *Greek History to the close of the Peloponnesian War.*

*Original Authorities.*

Heredotus.

Thucydides.

Xenophon *Hellenica*, I and II.

The period of Roman History selected is, *Roman History from the Gracchi to the death of Vespasian.*

*Original Authorities.*

Plutarch *Lives of the Gracchi.*

Cicero *Letters.*

Tacitus' *Annals*, B. I-IV.

Suetonius *Augustus.*

Candidates must show acquaintance with modern authorities on Greek and Roman History, and with the best modern critics of Plato and Aristotle. They are expected to be familiar with the substance of the books prescribed, as well as to be able to translate them.

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2. *Course for the Degree of Ph.D. in English and Modern Literature.*

(a) ENGLISH LANGUAGE AND LITERATURE.

Candidates in this course will communicate with Professor Cappon on the subject.

(b) MODERN LANGUAGES.

I.

1. The history of the literature.
2. The history of the language.
3. Oral and written composition.

II. GERMAN.

1. Gothic.  
Old High German.  
Middle High German.
2. Eighteenth Century.
3. Nineteenth Century.

III. FRENCH.

1. From the origin to the beginning of the 15th century.

2. Seventeenth Century.
3. Eighteenth Century.
4. Nineteenth Century.

IV. ITALIAN OR SPANISH.

V. COMPARATIVE GRAMMAR OF THE ROMANCE LANGUAGES.

Candidates may omit Period 2 or 3 in German and 2, 3 or 4 in French.

For special authors and works in each period and books of reference see Calendar for year 1896-97, or consult the Professor.

Candidates are requested to put themselves in communication with the Professors, who will prescribe the authorities to be consulted.

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3. *Course for the Degree of Ph.D. in History and English Literature.*

(a) HISTORY.

1. The History of England.

Continuous Constitutional History.

Continuous Political History.

A Selected Period to be studied in detail from the original authorities.

2. A period of general history to be studied in detail from original authorities.

3. The literature of the special periods selected.

The books on the constitutional history of England to be studied are:—

Stubbs's Constitutional History and Select Charters.

Hallam's Constitutional History.

May's Constitutional History.

Periods for detailed study:

English History.

449-1066.

1066-1272.

1272-1485.

1485-1603.

1603-1714.

1714-1880.

General History.

493-1095.

1095-1273.

1273-1530.

1530-1648.

1648-1788.

1788-1880.

Candidates are required to take the special periods most nearly corresponding with each other in English and general history, and in studying the selected periods they are expected to make themselves acquainted with their social and literary history.

Candidates are requested to put themselves in communication with the Professor, who will prescribe the authorities to be consulted.

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(b) ENGLISH LITERATURE. For subjects, see Course 2.

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4. *Course for the Degree of Ph.D. in History and Modern Literature.*

(a) HISTORY. For subjects, see Course 3.

(b) MODERN LITERATURE. For subjects, see Course 2.

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5. *Course for the Degree of Ph.D. in English Literature and Political Science.*

(a) ENGLISH LITERATURE. For subjects, see Course 2.

(b) POLITICAL SCIENCE. Subjects on application.

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6 *Course for the Degree of Ph.D. in History and Political Science.*

(a) HISTORY. For subjects, see Course 3.

(b) POLITICAL SCIENCE. Subjects on application.

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7. *Course for the Degree of Ph.D. in Mental and . . . Moral Philosophy.*

(A) PHILOSOPHICAL SYSTEMS.

Candidates may offer either one or two of the following:—

1. The Philosophy of Plato, with special reference to the Theaetetus, Republic and Sophist. Ability to translate these Dialogues is presumed.

2. The Philosophy of Aristotle, with special reference to the *Organon* (Selections of Oxford Press), *De Anima*, *Nicomachean Ethics* and *Politics*. Ability to translate these books is presumed.

3. The Philosophy of Hegel, with special reference to the *Encyklopadie*, I and III, *Wissenschaft der Logik*, I and III, *Phanomenologie des Geistes*, pp. 1-168, and *Philosophie des Rechts*.

4. The Philosophy of Comte, as contained in the *Cours de Philosophie Positive* and *System of Positive Polity*.

5. The Philosophies of Schopenhauer, Hartmann, and Lotze, with special reference to Schopenhauer's *World as Will and Idea*, Hartmann's *Philosophy of the Unconscious*, and Lotze's *Microcosmus* and system of Philosophy.

6. English Empirical Philosophy, as represented by James Mill's *Analysis of the Human Mind*, J. S. Mill's *Logic*, Examination of Hamilton and Utilitarianism, Bain's *Senses and Intellect*, *Emotion and Will*, Herbert Spencer's *First Principles*, *Psychology* and *Data of Ethics*.

Acquaintance with the best recent criticism is in all cases required.

## B. PRINCIPLES OF PHILOSOPHY.

Candidates must profess one of the following branches of Philosophy, unless they have taken two subjects in section A:

1. The Principles of Logic. References: The logical treatises of Hegel, Mills, Jevons, Venn, Lotze, Bradley and Bosanquet.

2. The Principles of Psychology. References: The

Psychological works of James Mill, J. S. Mill, Bain, Wundt, Sully, Ladd, James and Lotze.

3. The Principles of Ethics. References: The ethical works of J. S. Mill, Bain, Sidgwick, Green, Bradley, Spencer, Stephen, and Martineau.

4. The Principles of Aesthetics. References: The æsthetic treatises of Aristotle, Kant, Schiller, Lessing, Hegel, Lotze, Schasler, and Ruskin.

5. The Principles of Political Science. References: See Honour work in Political Science for Degree of M.A.

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## II. DEGREE OF D.Sc.

### *1. Course for the Degree of D.Sc. in Chemistry, Mineralogy, Botany and Geology.*

Candidates are required to have a thorough knowledge, practical and theoretical, of the subjects in one of the following divisions:

1. Chemistry—one of the following groups:

A. Inorganic Chemistry.

Chemistry in its relations to Mineralogy.  
Inorganic Analysis and Assaying.

B. Organic Chemistry.

Chemistry in its relations to Biology.  
Organic Analysis.

C. General Chemistry, including Chemical Theory in relation to Physics.

2. Mineralogy:

(1) Systematic Mineralogy.

(2) Mineralogy in its relations to Chemistry and Geology.

(3) Petrography.

(4) Ore Deposits.

(5) Determinative Mineralogy.

(6) Assaying.

(7) Economic Mineralogy of Canada.



### 3. Biology:

Comparative Anatomy and Physiology, Chemistry of Ferments, Bacteriology, with either of the following groups:

- I. (1) Special Studies in Vegetable Histology and Physiology.  
(2) A practical acquaintance with the Cryptogamic Flora of Canada.
- II. (1) Animal Physiology and Embryology.  
(2) Osteology and Odontography of Vertebrates.  
(3) Special study of Invertebrates (Canadian).  
(4) Physiological Chemistry.

A thesis containing original work done in one of these subjects.

### 4. Geology:

Standing equivalent to Preliminary Honours in Chemistry and Mineralogy will be required of candidates in this department.

Either of the following groups may be chosen by a candidate as his *chief subject*, and he will be required to take the other group as a *subordinate subject*:

- (1) Dynamical Geology and Petrography.
- (2) Stratigraphical Geology and Palæontology.

The candidate will be expected to show an acquaintance with his subordinate subject equivalent to Honours in the undergraduate course. An intimate knowledge of the chief subject must be shown.

Detailed information to be obtained from the Professors.

## FACULTY OF THEOLOGY.

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### *(1) General Announcement.*

1. The course in Theology extends over three sessions of six months each.

2. The student who desires to enter upon the study of Theology must be a graduate of this University, or of a University whose degrees are recognized by the Senate; or he must have completed three years of a university course, as enjoined by the General Assembly.

3. Students are expected to have passed the Junior Hebrew class, and are recommended to take a full course in Arts, and to obtain a degree, before entering on the study of Theology.

4. Students on entering theology, or on intimating their purpose to study for the ministry, must be in full communion with the Church; and all such students are required, during their course, to be in communion with a congregation of the Church in Kingston.

5. At the beginning of each session every student must present a certificate to the Secretary of the Faculty from the Presbytery within whose bounds he has resided during the summer vacation; and at the close of each session he shall, at the earliest opportunity, present his certificates to the Presbytery within whose bounds he purposes to reside.

6. Testamurs in Theology are given to students who have passed the sessional examinations on all the subjects prescribed by the General Assembly for students for the ministry.

7. Pass and B. D. examinations are held annually in April and October.

8. For further information see Blue Book of the Church, or apply to Rev. Dr. Ross, Secretary of the Faculty.

(2) *Matriculation.*

Matriculation examinations begin on Thursday, Oct. 30th. Candidates must give notice to the Secretary of the Faculty before Oct. 22nd.

*Subjects of Examination:*

Examination papers will be set in the following departments:—

1. The Shorter Catechism and the contents of the Epistle to Galatians and Romans.
2. Acts I-XII in Greek, and Dods' Introduction pp. 1-75.
3. Kirkpatrick's Divine Library of the O. T. Hebrew, The Article, Pronouns, Inseparable Particles, Grammatical Analysis, Gen. I, 1-20; Ps. I, I Sam. ix.
4. Bartlet's Early Church History pp. 1-66, and the Acts in the R. V.

One paper will be set in each department.

*Subjects of Study.*

**I.—DIVINITY.**

PROFESSOR—Very Rev. G. M. Grant, M.A., D.D., LL.D., C.M.G.

Lectures will be given on:

Comparative Religion.

Revelation.

The Canonicity, Authenticity, Genuineness and Credibility of the Biblical Records.

The Inspiration and Authority of the Scriptures.

Systematic Theology.

The Pastoral office and Homiletics.

**II.—HEBREW.**

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

TUTOR—J. Wallace, M.A., B.D.

*Junior Hebrew.*

Davidson's Hebrew Grammar, the first twenty exercises.

Psalms I, Genesis I, 1 Samuel IX-XI.

*Senior Hebrew.*

Davidson's Grammar, exercises in paragraphs 23 to 38 inclusive.

Hebrew Syntax. The class lectures. Jonah, Isaiah LVI-LXVI.

Honour course in O. T. Criticism:

The History of Hexateuch criticism.

Hebrew. Job XIII-XVII.

Exercises in Davidson's Grammar, 38 to the end.

Syntax, the Hebrew tenses. Isaiah XLII 1-7, XLIX 1-6, LI 9, LII 13, LIII 12.

**III.—APOLOGETICS.**

PROFESSOR—Rev. D. Ross, M.A., B.D., D.D.

1. Lectures on Apologetics from the beginning of the 16th century.

2. Lectures on Fundamental Apologetics.

3. Examination of Bruce's Apologetics, Books I and II.

**IV.—BIBLICAL CRITICISM.**

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

1. O. T. Exegesis and Criticism.

The Book of Job.

The Prophecy of Dentero. Isaiah.

The Teaching of the Prophets.

2. N. T. Exegesis and Criticism.

PROFESSOR—Rev. D. Ross, M.A., B.D., D.D.

The Acts of the Apostles, the Epistle to the Romans.

Lectures on Introduction and Criticism.

**V. CHURCH HISTORY AND HISTORY OF DOGMA.**

PROFESSOR—Rev. S. McComb, M.A., D.D.

Lectures on Eusebius' Ecclesiastical History.

Lectures on History of the Doctrine of the Incarnation.

Lectures on Anselm's Cur Deus Homo.

Modern Period.

**HONOUR COURSE.**

Lectures on Gwatkin's Selections from early writers.

Lectures on Ritschl's Unterricht in der Christlichen Religion.

Classes open to Theological students who have an elementary knowledge of the German language, are con-

ducted by Professors McComb and Jordan. The textbooks for 1902-3 are Ritschl's *Unterricht in der Christlichen Religion* and Marti's *Geschichte der Israelitischen Religion* (Vierter Abschnitt).

**VI.—ENGLISH BIBLE.**

The class in this subject will be held on Friday, open to students in all faculties, and to the general public.

Books to be read in 1902-3.

For Matriculation and Sessional Scholarships, see Article IV page 44.

The Church requires the following discourses to be delivered during the course:—Homily, Lecture and Greek Critical Exercise, Sermon and Hebrew Critical Exercise.

*Pass Examination.*

On the work of the Session.

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*Degree of Bachelor of Divinity.*

REGULATIONS.

1. Candidates for the Degree of Bachelor of Divinity, (B.D.), must be graduates in Arts in this University, or of a University whose degrees are recognized by the Senate, and must follow the prescribed order of classes in Theology.

2. The degree shall not be conferred until the candidate has completed the theological curriculum, with a view to the ministry in the church to which he belongs, and has passed a satisfactory examination in the branches of Theology taught in the University.

3. The divisions of the examination shall be (1) The Holy Scriptures. Candidates will be expected to show a competent knowledge of the contents of the Old and

New Testaments, and to show special acquaintance with at least one book from the O. T. and one from the N. T. The Revised Version should be used. This division is compulsory on all candidates. Any two of the following may be taken in addition: (2) O. T. Criticism and Introduction, Hebrew and Aramaic. (3) N. T. Criticism, Exegesis and Introduction. (4) Systematic Theology. (5) Church History and History of Dogma. (6) Apologetics and Comparative Religion.

Two papers will be set in (1) and four papers in each of the other divisions.

4. Candidates who have completed the Theological course may be examined in all the subjects, or may defer their examination in any subject.

5. Students may be admitted to examination in only one division at the end of the second session of their theological course.

6. A candidate may, subject to the preceding regulations, appear at any University examinations in Theology provided he gives two weeks notice of his intention to the Registrar, and pays the examination fee.

Autumn examinations begin on Thursday, Oct. 30th. Candidates must give notice to the Secretary of the Faculty before Oct. 15th.

#### Subjects of Examination:

I. The Holy Scriptures. The contents of the Old and New Testaments generally, with a special knowledge of Isaiah and St. Mark, in the Revised Version.

#### Books recommended:

Bennett's Primer of the Bible, or Kautzsch's Outlines of O. T. Literature.

Driver's Isaiah.

St. Mark in Cambridge Bible Series.

## II. Hebrew and Aramaic. O. T. Introduction and Criticism.

(a) The Prophetic Literature.

(b) Theology and Exegesis. Dentero—Isaiah, Job XIII-XVII.

(c) *Aramaic*. The Book of Ezra with special reference to Aramaic passages.

There are two papers in division (b) and one each in (a) and (c).

Books to be consulted.

Driver's Introduction, Bacon's Genesis of Genesis, Driver's Deuteronomy, Davidson's Job, Cornill's History of Israel, Dillmann's Genesis, The Oxford Hexateuch, Bradley's Lectures on Job, Driver's Daniel.

Ryle's Ezra Cambridge Bible, Skinner's Isaiah II, Driver's Isaiah, Cornill's Prophets of Israel.

## III. N. T. Criticism, Exegesis and Introduction.

(a) 1. Canonics.

Westcott, History of the Canon of the N. T.

Charteris, Canonicity.

2. Textual Criticism, MSS. Versions and principal disputed passages.

Scrivener's Introduction to the Criticism of the N. T.

Westcott and Hort, Greek N. T. Introduction.

(b) Introduction, Salmon, Weiss, Gloag, Sanday & Headlam's Com. on Rom. pp. I-XLIV; Westcott's Com. on Heb. pp. XXVIII-LXXX.

(c) Exegesis. Epp. to Romans and Hebrews.

Commentaries: Sanday & Headlam, Gifford, Godet, Calvin on Romans, Westcott on Hebrews.

(d) N. T. Greek. Blass' Grammar, Burton's Syntax of the Moods and Tenses.

## IV. Systematic Theology.

(a) The Christian Conception of God; Caird's Fundamental Ideas of Christianity, Clarke's Outlines, Lux Mundi.

(b) The Christian Doctrine of Sin; Tulloch, Muller Vol. I.

(c) The Atonement; McLeod, Campbell, and Dale, Cur Deus Homo, 1st half.

(d) The Church; Hatch's Early Organization, Hort's Ecclesia.

## V. Church History and History of Dogma.

(a) Church History, Ante-Nicene Period; Gwatkin's selections from early Christian writers.



- (b) History of Dogma; The Doctrine of the Incarnation, Anselm's *Cur Deus Homo*, 2nd half.

Books to be consulted:

Neander's Church History, Vols. I, II, Ramsay's Church in the Roman Empire before A.D. 170, part II; Dorner's Doctrine of the Person of Christ, Vol. I; Forrest's Christ of History and Experience; Hooker's Laws of Ecclesiastical Polity, Book V, sections 50-57.

VI. Apologetics and Comparative Religion.

- (a) Philosophical and Historical.

Flint: Theism, Antitheistic Theories.

Pfleiderer: Philosophy and Development of Religion.

Bruce: Apologetics.

- (b) Comparative Religion.

Grant: The Religions of the World.

Tiele: Outlines of the History of Religion.

Pressense: The Ancient World and Christianity.

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Benefactors have placed at the disposal of the Principal a few nominations, exempting from payment of class fees throughout the Course in Arts, for intending students of Theology who have matriculated. Applications for these should be made to him or to the Registrar before October 1st.

## FACULTY OF MEDICINE.

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The degrees of Doctor of Medicine (M.D.), and Master of Surgery (C.M.), is conferred upon candidates who comply with the following regulations :

1. Except as provided in the next regulation, every candidate must pass a successful examination upon the following subjects :

English Language, Grammar and Composition.

Arithmetic.

Algebra to the end of Simple Equations.

Geometry, First two books of Euclid.

Latin, as in Arts matriculation or a full equivalent.

Options, one of which must be taken: Steward's Physics or one book in Greek, French or German.

2. Matriculants in Arts, graduates from a recognized University, and students who have passed the Matriculation examination of the College of Physicians and Surgeons of Ontario, or of Quebec, are not required to pass the above examination.

NOTE.—Candidates who intend to practice in Ontario, or who wish to register with the General Medical Council of Great Britain and Ireland, must pass the matriculation of the College of Physicians and Surgeons of Ontario, that is, the Departmental Arts Matriculation, with the Chemistry and Physics Option.

3. Candidates who are not graduates in Arts must furnish evidence of having attended some recognized Medical School for not less than four full winter sessions and one summer session, and must pass all the required examinations.

### EQUIVALENT EXAMINATIONS.

The following courses and examination in Arts (attendance compulsory) will be accepted in Medicine:—

#### *Faculty of Arts.*

1. Course and examination in Botany (Pass).
2. Course and examination in Pass Animal Biology.
3. Honour Course and examination in Preliminary Honour Animal Biology, including Histology.
4. Course and examination in Junior Chemistry.
5. Course and examination in Senior Chemistry.
6. Course and examination in Preliminary Honours in Chemistry.

#### *Faculty of Medicine.*

1. Course and examination in Botany.
2. Course and examination in first year Physiology.
3. Course and examination in 2nd year Physiology and Histology.
4. Course of 1st year Chemistry. (See Calendar).
5. Course and examination in 2nd year Chemistry.
6. Course and examination in Analytical Chemistry.

For information regarding the Medals, Scholarships and Prizes see pages 47 and 48.

### NOTICES.

1. The examinations of the Medical Council are held in the City of Kingston.

2. The Calendar of the Medical Faculty, with full information respecting the curriculum in Medicine, fees, etc., can be had by applying to Dr. Herald, the Secretary of the Faculty.

3. The fee, including Registration, Examination, Laboratories, Library, Gymnasium, and the required amount of dissection material is \$100 per session, but if paid in full before October 31st the fee is \$95. If not paid before January 10th, \$105. Special arrangements will be made as to fees with those who do not take the full course of any year.

4. Candidates who are graduates in Arts will be required to attend only three winter sessions and one summer session.

5. All candidates must furnish evidence of having had six months' experience in dispensing medicine in a physician's office.

6. Students in Arts who intend subsequently to study Medicine are advised to take the honour classes in Chemistry and Animal Biology and thus complete their Chemistry, Physiology and Histology during the undergraduate course in Arts.

Examinations are required at the end of every session as follows :

At the end of the first session :—

Physics, Anatomy, Bones, Muscles and Ligaments, Animal Biology and Physiology, Theoretical Chemistry.

At the end of the second session :

Anatomy, Physiology, Histology, Materia Medica, Chemistry, Theoretical and Analytical.

At the end of the third session :

Practice of Medicine, Surgery, Obstetrics and Gynæcology, Pathology, Jurisprudence, Materia Medica, Therapeutics and Pharmacy, Medical and Surgical Anatomy.

At the end of the summer session :

Botany and Sanitary Science.

At the end of the fourth session :

Practice of Medicine, Surgery, Obstetrics and Gynæcology, Medical and Surgical Anatomy, Sanitary Science, Pathology and Bacteriology.

On each paper the examiner will put pass and honour questions. Students desiring rank must answer both.

A candidate cannot obtain University rank for any of the foregoing examinations until he has matriculated.

## FACULTY OF LAW. DEGREE OF LL.B.

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1. This degree will not be conferred upon any undergraduate or upon any graduate in Arts of less than one year's standing.

2. Graduates who have taken the honour courses of this University in History and Political Science may proceed to the degree by passing on the following works:—

Commentaries of Gaius, Abdy and Walker.

Institutes of Justinian. Sandars.

Harris' Principles of Criminal Law. Also Canadian Criminal Code, with Amendments.

Maxwell's Interpretation of Statutes. Also Interpretation Acts, in Revised Statutes of Canada and Ontario.

Westlake's Private International Law.

T. A. Walker's International Law.

Guthrie's Savigny.

O. W. Holmes' The Common Law.

Goodnow's Comparative Administrative Law.

Dicey's Law of the Constitution.

Houston's Constitutional Documents of Canada.

3. Barristers-at-Law or persons who have been admitted as students-at-law by the Law Society of Upper Canada and have passed their second Intermediate Examination will be admitted to the degree by passing on the honour course of this University in History and Political Science, together with the works specified in section 2.

4. Graduates in Arts of this or any recognized University, being Barristers-at-Law will be admitted to the degree by passing on the following works in addition to those specified in section 2:—

Bryce's American Commonwealth, Vol. I.  
Stubb's Constitutional History of England.  
Bagehot's English Constitution.  
Bosanquet's Philosophical Theory of the State.  
Holland's Elements of Jurisprudence.  
Maine's Ancient Law.

5. Candidates are required to send notice to the Registrar, before the first day of March, of their intention to present themselves at any of the examinations.

## SCHOOL OF MINING.

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### *Faculty of Practical Science.*

By joint action of the Trustees of the University and the Governors of the School of Mining, the School of Mining has become the Faculty of Practical Science of the University.

The object of the School of Mining and the Faculty of Practical Science is to give a theoretical and practical education in applied science.

The complete course extends over four years and leads to the degree of B.Sc., but a diploma will be awarded to those who complete three years of any one of the courses and pass the necessary examinations.

### *Admission.*

A candidate may enter upon a course with a view to obtaining a diploma or the degree of B.Sc. upon any one of the following conditions :—

1. Having matriculated in any university in the British Empire or in the United States.

2. Having passed the Junior Leaving or Junior Matriculation Examination of the Department of Education of Ontario, in English Grammar, Composition and Literature, Arithmetic, Mensuration, Algebra and Geometry, History of Great Britain and Canada, Physics and Chemistry.



3. Having been engaged for one year in engineering or surveying, or a manufacturing establishment, and having passed the September examination in (a) arithmetic, (b) algebra to quadratic equations inclusive, (c) the first three books of Euclid or their equivalent in any other work on Geometry, and (d) English composition and diction.

While students are admitted upon matriculating in the subjects mentioned, it is strongly urged upon them to take the complete matriculation examination with the modern language or science option. (See page 25.)

Special students may be admitted to such course of instruction as the Faculty may think proper.

The work is carried on partly in the University buildings and partly in the Mining School.

### *Courses of Study.*

The following courses are offered :

1. Three years' courses for a diploma. 2. Four years' courses for the degree of Bachelor of Science (B.Sc.)

#### GROUP I.

- (A) Mining Engineering.
- (B) Chemistry and Mineralogy.
- (C) Mineralogy and Geology.
- (D) Chemical Engineering.

#### GROUP II.

- (E) Civil Engineering.
- (F) Mechanical Engineering.
- (G) Electrical Engineering.

#### GROUP III.

- (H) Biology and Public Health.

For further information see Calendar of the School of Mining, which will be forwarded on application to the Secretary, G. Y. Chown, Kingston, Ont.

## EQUIPMENT.

THE JOHN CARRUTHERS SCIENCE HALL was built in 1890 for the department of Chemistry. Part of the space is at present occupied by the departments of Mineralogy and Geology, for which a new building is in course of construction.

The practical work in chemistry is carried on in three laboratories: No. 1 for qualitative analysis, No. 2 for quantitative analysis, and No. 3 for experimentation in class, and drill on the subjects treated of in the junior lectures. No. 1 and No. 2 are fitted up with 62 and 42 locked work places, so that 104 students can be provided each with a set of apparatus under lock and key. No. 3 serves both as a laboratory and a class room. It is furnished with seats and desks which are at the same time work tables. Besides these larger laboratories there are smaller rooms devoted to special branches of analytical chemistry and to research.

The blowpipe laboratory is arranged to accommodate forty-eight students, working twenty-four at one time.

The assaying laboratory is furnished with the plant necessary for conducting assays of gold, silver, copper, iron, nickel, zinc and lead ores, by furnace, titration and electrolytic methods. With the various furnaces students are taught the use of hard coal, soft coal, coke, gasoline and illuminating gas as fuel. The laboratory is well supplied with ore-bins and samples of pulverized ore from the mining laboratory, so that practice may be had with a variety of ores. The mineral cabinets contain typical examples of the commonly occurring ores of the various metals treated in the course; these are used for illustrating the lectures which supplement the text-books used.

The mineralogical and crystallographic collections have been carefully made and arranged with a view to their use in teaching the subjects in a practical way. A special feature is the large number of sets of the commoner minerals for the daily use of the students, each of whom keeps his own set throughout the session.

The *petrographical laboratory* is supplied with electrical power and provided with diamond saws and other apparatus needed in the preparation of thin sections of minerals and rocks for examination with the microscope.

There are provided for the use of students seven petrographical microscopes of the latest and most improved designs.

Laboratory facilities are also provided for micro-chemical tests, and for the use of heavy solutions in separating the constituents of the rocks.

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### THE ENGINEERING DEPARTMENT.

The work in engineering is practical as well as theoretical. The new Engineering building, which will be ready for session 1902-03, contains two laboratories for experimental work in Thermodynamics and Mechanical Engineering, three laboratories for experimental work in Electrical Engineering, and a laboratory for testing the strength of materials. In addition to these there is a large draughting room, a research laboratory and a room for surveying instruments.

The college buildings are lighted and heated from a central power plant which is connected with the Engineering building. This plant affords exceptional facilities for practical instruction.

## THE MECHANICAL LABORATORY.

The mechanical laboratory consists of two departments, wood-working and metal-working. The wood-working shop is 72 x 32 feet and is well lighted on two sides. The appliances are a jig saw, a circular saw, and three wood-turning lathes, two with 4 feet beds and the third with a 6 foot bed; benches 6 feet and 12 feet long, with accommodation for two persons at each bench, and all the necessary small tools. Students are given rough sketches with dimensions of the work in which they are to engage. They are then required to make working drawings to scale, with all details, and to work from their drawings. Accurate drawings and careful work is insisted upon.

The work for each student begins with dressing wood to size and putting together by various joints. After some skill has been acquired the student is set to making boxes, drawers, simple useful objects, and various kinds of models. In the second term turning is taken up and students are encouraged to make useful articles for themselves, such as small boxes, small table book-cases, mineral cabinets, stands, &c., the cost for each being merely that of the material put into them.

The metal-working department contains one large room 64 by 16 feet, and two smaller rooms each 32 by 16 feet, besides a private room for the directors. In the large room are three lathes, two being engine lathes, two drill presses—one large and one small—a shaping machine and a gear-cutting engine for iron wheels, supplied with Brown and Sharp milling cutters. One of the small rooms contains the grindstone, the emery grinders, and a gear cutting machine with fly cutters for brass and

wooden wheels. Both gear cutters are capable of cutting any number whatever of teeth with pitches from 12 to as high as you please, and will take in blanks up to 7 in. diameter. The second small room is used mostly as a model room in which such models as are thought worth preserving are stored. This room contains also a large clock with Denison's gravity escapement, upon the model of a turret clock, and various working models which are put in motion by moving a switch. The clock supplies time to the building, and it and all the models were wholly constructed in the shops.

In the directors' room are a small lathe with slide rest, and a boring machine for drilling the blanks of lantern pinions, and other things of like kind. Two new lathes are under process of being built, a plane with a compound slide rest and a rack feed which will be finished this spring, and a pittler lathe which will be finished during next session.

Ten lessons in blacksmithing are taken by each student during the latter part of his first term.

The shops are airy and well warmed and lighted, and neatness, cleanliness and order are insisted upon, so that the shops become an attractive feature of the student's course.

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#### THE MINING LABORATORY AND ORE TESTING WORKS.

The School of Mining has developed from small beginnings a large and comprehensive laboratory, with first-class modern equipment for the practical milling and dressing of all kinds of ores. With but few exceptions the appliances are of standard sizes, such as are employed

in actual practice in large works, so that students may obtain efficient instruction in the adjustment, operation and care of this kind of machinery. An elaborate training is also given in the methods of testing ores for process, in which respect the School of Mining offers peculiar advantages, since many mine owners throughout the Dominion avail themselves of the facilities of this laboratory for working out problems in ore milling and dressing on such a scale as to furnish reliable *data* for the specification of projected plants. Thus large quantities of widely different classes of ores are being tested throughout each session, affording students valuable experience of the most practical sort.

A systematic course of study is carried out, involving comparative investigations into the effects produced on different ores by varying methods of crushing; hydraulic classification, jigging, buddling, vanning, riffle-washing, etc., etc.

## PART II.





## PART II.

### MEDALS, PRIZES AND SCHOLARSHIPS FOR 1901-1902.

#### UNIVERSITY MEDALS.

<i>Latin</i> .....	Sheppard, F. W., Berlin.
<i>Greek</i> .....	Calhoun, A., M.A., Ottawa.
<i>Moderns</i> .....	Williams, W., Picton.
<i>English</i> .....	Vaux, Lilian, Toronto.
<i>History</i> .....	Donnell, J. A., M.A., Beaverton.
<i>Mental Philosophy</i> .....	Wilson, R. A., M.A. Rentrew.
<i>Moral Philosophy</i> .....	McEachran, J. M., M.A., Glencoe
<i>Political Science</i> .....	Donnell, J. A., M.A., Beaverton.
<i>Mathematics</i> .....	McKechnie, J. W., M.A., Wiar- ton.
<i>Biology</i> .....	Fletcher, W. H., M.A., Kingston.
<i>Botany</i> .....	Voaden, John, Talbotville.
<i>Chemistry</i> .....	McDougal, F. H., Maxville.
<i>Medicine</i> .....	Mellow, F. E., M.D., Sillsville.
<i>Surgery</i> .....	Dalton, G. F., M.D., Kingston.

#### UNIVERSITY PRIZES—ARTS.

<i>Gowan Foundation in Botany</i> .....	Power, Gertrude F. E., Kingston.
<i>Gowan Foundation Essay in Poli- tical Science</i> .....	Mason, G. W., Glenvale.
<i>The Sir John A. Macdonald prize in Political Science, given by Hon. Senator Gowan, C.M.G.</i> ....	Mason, G. W., M.A., Elmvale.
<i>Roughton Prize in German</i> .....	Jackson, Fannie, Lindsay.
<i>Professors' Prize in French</i> .....	Asselstine, Lizzie, Kingston.
<i>Latin Prose Composition</i> .....	Ramsay, W., B.A., Plattsville.
<i>Greek Prose Composition</i> .....	Billings, T. H., M.A., Lyn.

#### UNIVERSITY PRIZES—MEDICINE.

<i>Dr. Hayunga's Prize for Best Dissection</i> .....	McCullough, F. C., Gananoque.
<i>Faculty Prize of \$25.00 for best ex- amination on Anatomy, Physi- ology and Chemistry</i> .....	Tandy, H., Kingston.



# IV.—Theology.

## A. MATRICULATION.

<i>David Strathern Dow</i> .....	Beckstedt, I. N., B.A., Guelph.
<i>Dominion</i> .....	McQuarrie, W. J., West Bay, C.B.
<i>Buchan, No. 1</i> .....	Petrie, J. A., B.A., Belleville.
<i>Buchan, No. 2</i> .....	Borley, H. D., Mount Brydges.
<i>Buchan, No. 3</i> .....	Caldwell, J. A., Lanark.
<i>McIntyre</i> .....	McLennan, G. B., Walkerton.

## B. SESSIONAL.

<i>Sarah McClelland Waddell Memorial, \$120</i> .....	Beckstedt, I. N., B.A., Guelph.
<i>The Chancellor's, \$70</i> .....	McKinnon, A. G., B.A., Ottawa.
<i>Spence, \$60</i> .....	Solandt, D.M., B.A., Kingston.
<i>Leitch Memorial, No. 2, \$80, Ten-able two years</i> .....	Wallace, James, M.A., B.D., Renfrew.
<i>Anderson, No. 1, \$40, 1st Divinity</i> .....	Borley, H. D., Mount Brydges.
<i>Anderson, No. 2, \$35, 2nd Divinity</i> .....	Fotheringham, R. H., Rothsay, Ont.
<i>Toronto, \$60, 2nd Hebrew</i> .....	Petrie, J. A., B.A., Belleville.
<i>St. Andrew's Church, Toronto, \$50, O. and N. T. Exegesis</i> ....	Millar, J. F., B.A., Millartown.
<i>Rankine, \$55, Apologetics</i> .....	Brown, T. C., Richmond, Ont.
<i>Glass Memorial, \$30, Church History</i> .....	Fraser, Thurlow, B.A., B.D., Poltimore, Que.
<i>Mackie, \$25, Latin Apologists of third Century</i> .....	McLaren, W. W., M.A., B.D., Renfrew, and Millar, J. F., B.A., Millartown.
<i>James Anderson Bursary, \$25, Gaelic Preaching</i> .....	McQuarrie, W. F., West Bay, Cape Breton.

## LIST OF GRADUATES FOR 1901-1902.

### MASTERS OF ARTS (M.A.)

Billings, T. H.....	Lyn, Ont.
Bloor, W. R.....	Ingersoll.
Calhoun, A.....	Ottawa.
Chambers, R.....	Bardezag, Turkey in Asia.
Donnell, J. A.....	Beaverton.
Dwyer, J. G.....	Kingston.
Fletcher, W. H.....	Kingston.
Lowe, W. D.....	Kingston.

Mason, G. W.....	Elmvale.
McEachran, J. M.....	Glencoe.
McGuire, J.....	Westport.
McKechnie, J. H.....	Warton.
McNab, Elizabeth M., B.A.....	Douglas.
McNab, George G.....	Renfrew.
Thompson, A. M.....	Sarnia.
Sexton, J. H.....	Kingston.
Warren, L. A. H.....	Balderson.
Whiting, C. C.....	Toledo.
Wilson, R. A.....	Renfrew.

#### BACHELORS OF ARTS (B.A.)

Allison, Mary L.....	Adolphustown.
Aylesworth, F. L.....	Kingston.
Brokenshire, W.....	Toronto.
Caldwell, J. A.....	Watson's Corners.
Calvin, D. D.....	Kingston.
Coad, Edith.....	Brockville.
Dickson, M. Evelyn.....	Kingston.
Dunkley, W. G.....	Picton.
Ferguson, J. Y.....	Admaston.
Flath, Emma S.....	Kingston.
Fox, Catherine H. C.....	Mountain Grove.
Graham, Elsie K.....	Kingston.
Graham, R. R.....	Bowell.
Hagar, A. E.....	Brome, Quebec.
Halladay, R. W.....	Elgin.
Harpell, J. J.....	Inverary.
Harten, Geo. H.....	North Pownal, Vt.
Harvey, J. F.....	Sydenham.
Horsey, Florence M.....	Kingston.
Laidlaw, C.....	Toronto.
Lawlor, R. G.....	Sydenham.
Leckie, N. M.....	Hamilton.
Liebner, E. O.....	Orillia.
Malloch, G. S.....	Hamilton.
Miller, Eva M.....	Switzerville.
Mundell, Alma E.....	Kingston.
Huff, S.....	Meaford.
Munro, W. A.....	Chesterville.
McCrimmon, Annie L.....	Alexandria.
Macdonnell, L. M.....	Kingston.
McCullagh, R. J.....	Cobourg.
McDougall, F. H.....	Maxville.
Macgillivray, T. D.....	Kingston.

McInnes, W. H.....	Vankleek Hill.
McIntosh, J. A.....	Minden.
McIntosh, P. A.....	Dundela.
McLaren, C. H.....	Ottawa.
MacLennan, J. D.....	Port Hope.
McNab, A. J.....	Douglas.
McSporran, J. A.....	London, Ont.
Newton, Meta.....	Deseronto.
Patterson, W. R.....	Kingston.
Pocock, C. E.....	Hillhurst, Quebec.
Ramsay, W.....	Plattsville.
Ruttan, Emily.....	Kingston.
Slack, E. B.....	Toronto.
Snowden, H. A.....	Tweed.
Stewart, Margaret J.....	Renfrew.
Stewart, Martha G.....	Laguerre, Que.
Walkem, R. K.....	Kingston.
Walker, C. Wesley.....	Kingston.
Walker, H.....	Metcalfe.
Watson, Alice R.....	Kingston.
Wilson, Jessie A.....	Gananoque.
Wright, E. A.....	Renfrew.
Young, J. M.....	Renfrew.

GRADUATES IN MEDICINE (M.D.) AND MASTERS OF SURGERY (C.M.)

Amos, W. W.....	Kingston.
Bleecker, G. H.....	Trenton.
Connell, J. V.....	Spencerville,
Crews, J. W.....	Trenton.
Dalton, G. F.....	Kingston.
Day, H. E.....	Kingston.
Eshoo, S. O.....	Oroomiah, Persia.
Hanley, G. J.....	Kingston.
Hill, J. T.....	Conway.
Etherington, F.....	Portsmouth.
Gage, H. E.....	Kingston.
Graham, D.....	Steinbach, Man.
Hughes, R. E.....	Ottawa.
Jones, L. W.....	Kingston.
Mason, W. R.....	Ottawa.
Mellow, F. E.....	Sillsville.
Merrill, J. W.....	Ottawa.
Moore, R. G.....	Belleville.
McKechnie, W.....	Elmside, Que.
McLaren, T. O.....	Lancaster.
Nash, P. I.....	Kingston.

O'Rielly, T. J.....	Placentia, Nfld.
Orser, T. H.....	Glenvale.
Patterson, W. J.....	Peterboro.
Reekie, J. S.....	Sydney, N. S. W.
Reid, R. M.....	Renfrew.
Smith, A. L.....	Kingston.
Stratton, C. M.....	Napanee.
St. Remy, C. de.....	Kingston.
Windel, H. C.....	Lotus.
Woodruff, G. A.....	Littlefield.

#### BACHELORS OF SCIENCE (B.SC.)

Burrows, A. G., M.A.....	Napanee.
Baker, M. B., B.A.....	Stratford.
Baker, H. S.....	Kingston.
Dwyer, E.....	Kingston.
Fairlie, M. F.....	Kingston.
Grover, G. A.....	Kingston.
McLennan, J. D.....	Port Hope.
McNab, A. J., B.A.....	Douglas.
McRae, A. D., B.A.....	Kingston.
Noble, D. S.....	Clarkson.
Reid, J. A.....	Annapolis, N. S.
Silver, L. P.....	Kingston.
Stillwell, A. J.....	Bracebridge.
Sutherland, E.....	Belleville.

#### BACHELORS OF DIVINITY (B.D.)

Fraser, Thurlow, B.A.....	Poltimore, Que.
Leckie, N. M., B.A.....	Hamilton.
McLaren, W. W., M.A.....	Renfrew.

#### TESTAMURS IN THEOLOGY.

Edmison, George A., B.A.....	Rothsay.
Goodwell, T. W., B.A.....	Charlottetown, P. E. I.
Miller, J. F., B.A.....	Millertown.
McConnell, J. A., B.A.....	Elphin.
MacIntyre, W. C., B.A.....	Newington.
McMillan, A., B.A.....	Sonya.
Pocock, C. E.....	Hillhurst, Que.
Purvis, W. W., B.A.....	Junetown.

#### DOCTORS OF LAW (LL.D.)

Hoyles, N. W., B.A.....	Toronto.
Seath, John, B.A.....	Toronto.

#### DOCTORS OF DIVINITY (D.D.)

Hart, T., M.A., B.D.....	Winnipeg.
Clark, Wm., M.A., D.C.L.....	Toronto.



## PASS LISTS.

### ARTS.

#### 1. SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1901.

*Junior Latin*—Darroch, W. F.; Ide, Wm.; Embury, Allen E.; Fetterly, H. B.; Thibaudeau, P. H.; Harpell, J. J.; Kidd, J. J.; McCarthy, D. M.; Ferguson, J.; Donovan, Gertrude A.; Asselstine, Frances M.; Maxwell, M. Estella.

*Senior Latin*—Dingwall, Annie C.; Ewing, Florence M.; Ferguson, J. Y.; Fox, Catharine H. C.; Graham, R. R.; Kennedy, H.; McDonald, J. M.; Race, W. B.; Spence, J. C.; Thompson, Edna G.; Gray, Stearns.

*Junior Greek*—McIntosh, P. A.; Cowan, Edith; Leibner, E. O.

*Junior English*—Ramsay, D. C.; Fockler, C. E.; MacEachran, G.; D.; Kidd, A.; Hiscock, Reta; Gibson, G. H. D.; Kidd, A. J.

*Senior English*—Embury, A.; Ramsay, W.; Beckett, S. E.; Brown, Harry W.; Fetterly, H. B.; Cowan, Edith; Meldrum, G. E.; Mothersill, G. S.; Norton, T. W. F.

*Junior History*—Down, G. W.; Watson, Alice; Dickson, Evelyn; Wright, T. J.; Philp, J. H.; McConkey, Kate M. R.; Grenfell, Marion; Burr, Lenne; Mundell, Alma; Pierce, Ada E.

*Senior History*—Perney, F. E.; Dickson, Evelyn; Philp, J. H.; Ewing, Florence; Kennedy, A. H.; Grenfell, Marion; Graham, Elsie; McIntyre, J. M.; Pocock, C. E. A.; McCrimmon, Annie L.; Robertson, J. B.

*Junior Philosophy*—Brick, W.; Embury, Allan; Dingwall, Annie C.; Norton, T. W. F.; Sheppard, F. W.; Fetterly, H. B.; Eastman, F. S.; Ramsay, D. C.; Dingwall, Malcolm; Lindsay, M. A. F.; Clow, C. N.

*Senior Philosophy*—Harpell, J. J.; Quigley, J.; Caldwell, J. A.; Walker, A.; Brokenshire, W.; Burr, Lenne; Mundell, Alma E.

*Junior Political Science*—Anderson, P. McC.; Watson, Alice; Cumming, Lucy; Meldrum, G. E.

*Senior Political Science*—Anderson, P. M.

*Junior Mathematics*—Ramsay, D. C.; Borley, H. D.; Struthers, W. E.; Mohr, F. W. C.; McCarthy, D. M.; Mothersill, G. S.; Brown, G. A.; Boyd, Agnes; McIntyre, J. M.; Robinson, F. A.; Cumming, A. W.

*Senior Mathematics*—Sullivan, J. F.; Bennett, Margaret V.; Harten, G. H.; Robinson, J.; McIntosh, J. A.

*Junior Physics*—Dickson, M. Evelyn; Reid, E. J.; Williams, L. J.; Patterson, W. R.; MacIntyre, J. M.; Grant, Flora; Duff, K. Isobel; Milne, M. R.; Twitchell, E. G. C.; Hagar, A. E.; Pocock, C. E. A.

*Senior Physics*—Reid, E. J.; Pentland, G. E.; Williams, L. J.; Reynolds, M.; Graham, R. R.; Struthers, W. E.; Ferguson, J.

*Pass Botany*—Williams, L. J.; Spence, J. C.; Walker, H.; McLellan, D.

*Pass Animal Biology*—Twitchell, E. G. C.; Caldwell, J. A.; Robb, J. J.

*Junior Chemistry*—Williams, L. J.; Mothersill, G. S.; Walker, H.; Harten, G. H.; Grant, Flora; Cumming, A. W.

*Senior Chemistry*—Reynolds, M.; Graham, C. W.; Thibaudeau, P. H.; Wright, E. A.

## 2. SESSIONAL EXAMINATIONS.

*Junior Latin*—Div. I, Malcolm, W.; Hawes, Ida; Kilmer, E. C.; Matheson, J.; Roddick, A. M.; Story, G. E.; Kennedy, W. A.; Browne, P.; McKellar, Katie; Hay, W. M. Div. II—Platt, G. A.; Campbell, A. A.; White, H. T.; Arthur, Nellie; Mackenzie, H. Maud; Macgillivray, Florence; McKerracher, Florence; Byrnes, Marie; Mason, G. W.; Platt, E. O.; McLeod, N.; Allen, J.; Barker, G. A. Div. III—Berney, Laura; Aylesworth, Mabel; McMillan, G.; Sharpe, Helena; Macpherson, H.; Dingwall, D.; Taylor, Mabel; Finn, J. P.; McNaughton, A.; Scott, R. A.; Fockler, C. E.; McQuarrie, W. J.; Beggs, W.; Losee, J. R.; Miller, F.; Glover, W. R.; Jones, F. A.; Mallen, L.; Savage, Louise; Graham, J. H.; Williamson, Florence; Sears, J.; White, H. P.; Pearce, W. R.; Scott, Jean M.; Knight, Mona; Bailey, W. L.; Andrews, D.

*Senior Latin*—Div. I, Macdonnell, J. M.; Jackson, Fannie A.; Connor, Grace L.; Moore, Margret, equal; McKerracher, Donald, Walkem, Knox, equal; Asselstine, Lizzie; Carey, W., and Williams, Mary, equal; Lindsay, Muriel; Calvin, J. D.; Eastman, F.; Munro, Maggie B.; Boland, W. A.; Malloch, Eleanor, and Sullivan, J. S., equal; McDougall, L. M.; Hall, T. F., and McLeod, Lola, equal; Brown, G. A., and Ostrom, Ethel, equal; Cooke, W. J.; Marshall, D. H. Div. II—Meldrum, G. E.; Elder, C. Hosie, Sparks, W. F., and Twitchell, E. G. C., equal; Cattnach, Jessie, and Redden, Marion, equal; Purdy, May C.; Hiscock, Reta, Lindsay, M. A., and McKerracher, D., equal; Buchanan, Mabel; Millar, R. M.; McSparran, J. A.; Cameron, Alexander; Munro, M. F. Div. III—Bright, A., and Macdonald, J. L., equal; Flath, Emma; Mac-

Gillivray, T. D.; Robinson, F. A.; Harvey, J. F.; Blane, William.

*Junior Greek*—Div. I, Roddick, A. M.; Story, G. E. Div. II—Kennedy, W. A.; McKeracher, D. A.; Campbell, A. A.; McGuire, J.; Fockler C. E. Div. III—Lindsay, M. A.; Graham, J. H.; Cameron, A.; Aylesworth, Mabel; McQuarrie, W. J.; Losee, J. R.; MacKinnon, A. D.; White, H. P.; Hunter, H.S.

*Senior Greek*—Div. I, Macdonnell, James M.; Connor, Grace L.; Wilkinson, A. T. Div. II—Chambers, L. P.; Bennett, Walter; Eastman, F.; Wormwith, N. B.; Hall, T. F.; McDougall, L. M.; Moore, Margret B.; McDonald, J. M.; Brown, George A.; Watson, G.A. Div. III—Purdy, May C.; Bright, Alfred; Graham, F. L.; Woolsey, W. T.; MacDonald, John; Munro, M. F.; Woods, I. H.

*Junior French*—Div. I, Hawes, Ida E.; McLeod, N.; Malcolm, W.; Arthur, Nellie; Platt, G. A.; McKenzie, Maud; Boland, W. A.; Scott, Jean M.; Hay, W.; Cameron, D. R. Div. II—White, H. T.; Campbell, D.; Tunnah, Mary G.; Sears, J.; Mallen, L.; Burney, L.; Sharpe, H.; Dingwall, D.; Finn, J. A.; Markle, J. H.; Power, G.; Jones, J. E.; Hutton, R. L. Div. III—Browne, P.; Knight, Mona N.; O'Donnell, Florence; Woolsey, W. J.; Burns, Olive M.; Gillies, D. A.; Glover, W. R.; Huff, S.; Simpson, B. L.

*Senior French*—Div. I, Asselstine, Lizzie; Carey, W. J.; Malloch, Eleanor; Williams, Mary; Jackson, Fannie A.; Murphy, G. B.; Buchanan, Mabel; Macgillivray, Florence; McKerracher, Donald; Williamson, Florence. Div. II—McLeod, Lola; Munro, Maggie B.; Calvin, J. D.; Timmerman, Mary E.; Fraser, George E.; Cattnach, Jessie; Lindsay, Muriel; Cooke, W. J.; Hiscock, Reta; Snowden, H. A.; Thornton, L. A.; McCormack, J.; Ostrom, Ethel; Anglin, S. M.; Boyd, Agnes; Spence, H. D. L.; Millar, R. M.; Dingwall, A. Div. III—Pierce, Ada; McKerracher, Florence; Hunt, Sarah A.; McPherson, H.; Robinson, J.; Maxwell, Mary E.; Markle, J. H.

*Junior German*—Div. I, Hawes, Ida E.; Arthur, Nellie. Div. II—Scott, R.; Bailey, W.; Scott, Jean; Ayers, M. H. Div. III—Pierce, Ada E.; Knight, Mona; McLellan, D.; McCormack, Irene; Gibson, Ethel; McKenzie, M.; Anderson, P. M.; Sharpe, Helena; O'Donnell, Florence; McKerracher, Florence; Burns, Olive M.; Maxwell, Mary E.; Leitch, G. C.

*Senior German*—Div. I, Jackson, Fanny; Williams, Mary; Dark, T. J.; Asselstine, Lizzie. Div. II—Malloch, Eleanor; Carey, W. J.; Snowdon, H. A.; Murphy, G. B.; Cattnach, Jessie; Calvin, J. D.; Lindsay, Muriel; Macgillivray, Florence; Mil-

lar, R. M.; Thornton, L. A.; Buchanan, Mabel. Div. III—Fraser, George E.; Williamson, Florence; Ostrom, Ethel; McLeod, Lola; Hunt, Sarah; Hiscock, Reta; Macpherson, H.; McKerracher, Donald; Munro, Maggie B.

*Junior English*—Div. I, Platt, G. A.; Mackenzie, M.; Roddick, A. M.; Graham, Violet B.; Cameron, D. R.; Dunlop, H., Hay, W., equal. Div. II—Dillabough, J. V.; Scott, R. A.; Berney, Laura, Knapp, Edwin, equal; Pearce, W. R.; Hawes, Ida; Leitch, G. C., Tunnah, M. G., equal; Sharpe, Helena; Weaver, Maud, White, H. T., equal; Penman, A. G.; Dawson, L. M.; Browne, P., Thibaudeau, P. H., equal; Arthur, Nellie; Gillies, D. A.; O'Donnell, Florence, Beggs, W., equal; McLeod, Norman; Storey, G. E.; Losee, J. R.; Campbell, A. A. Div. III—Dingwall, Donald; Mackie, G. A.; McKinley, W. W.; Gage, R. G.; Kerr, T. R.; McNaughton, Alexander; White, Herbert P.; Scott, Jean; Calvin, J. D.; Laird, W. L.; Mabee, H. C.; Reid, F. D.; Knight, Mona; McKinnon, Alexander; Gibson, A. S.; Eyre, W. H.; Peppett, C. W.

*Senior English*—Div. I—Macdonnell, J. M.; Malloch, Eleanor, Polson, S. M.; Jones, F. A.; Chambers, L. P.; Boland, W. A.; Bennett, W. L. Div. II—O'Brien, Lizzie; Wormwith, N. B.; Asselstine, Lizzie; Campbell, D.; Barrett, A. M.; Foik, H. J.; Sullivan, J. F.; Carefoot, G. A.; Moore, Margaret; Schrag, A. R.; Dark, T. A.; Williams, Mary; Pierce, Ada; Carev, W. J.; Kidd, A. J.; Galbraith, T. M.; Malcolm, W.; Brown, George; Couch, S.; Lindsay, Muriel; McGillivray, Florence; Jackson, Fannie; Guggisberg, W.; Archibald, G. G.; Cameron, A. R.; Whinton, W. E. Div. III—Kennedy, W. A.; Hall, T. F.; Fraser, G. E.; Robinson, F. A.; McKay, J. M.; Evans, J. J.; Andrews, D.; Beveridge, R. W.; McKellar, Katie; McLellen, D.; McMillan, G.; Curtin, C. J.; Fleming, A. G.; Jones, J. E.; Watson, G. A.; Ferguson, T. R.; Lindsay, M. A. F.; Munroe, Margaret; Caldwell, Max; Elder, Hosie; Ettinger, J. G.; Asselstine, E. B.; Anglin, S. M.; Ayers, M. H.; Buchanan, Mabel; Cattanaach, Jessie; Connor, Grace L.; McKerracher, Florence; McKerracher, D. A.; Marshall, D. H.; Miller, R. M.; Murphy, G. B.; Williamson, Florence; Purdy, May C.; Munroe, M. F.; McCormack, Irene; Glover, W. R.; Timmerman, Mary; McKerracher, Donald; McDougal, L. M.; McLeod, Lola; Walker, A. J.; Ostrom, Ethel; Boyd, Agnes; Evans, A. R.; Hunt, Sarah.

*Junior History*—Div. I, McLaren, C. H. Div. II—Asselstine, Lizzie; Weese, Metta; Reilly, F. J.; McDonald, J. M.; Tompkins, Louise; Wormworth, M. B.; McCormack, S. G.; Cattanaach, Jessie; McCutcheon, J. M.; Boland, W. A.; Davidson, Helena; Dingwall, Malcolm; Fleming, W. S.; Stewart,

Margaret; Wilkinson, Alfred T.; Aylesworth, Fred; Eastman, F.; Wilson, R. A.; Kidd, Angus; Landman, Isaac. Div. III—Cooke, Walter; Scott, A. K.; Cooper, Alexander B.; Lowry, Blanche; LeSueur, E. Daisy; Forfar, Lena; Teskey, Kathleen; Monroe, Margaret.

*Senior History*—Div. I, Weese, Meta; Carefoot, George, A.; Barrett, H. M.; Pierce, Ada. Div. II—Tompkins, Louisa H.; Pettit, Louis; Macgregor, Annie; Reilly, F. J.; Mundell, Alma; Kidd, A. J.; Grant, Ethel; Jones, J. E.; Fleming, W. S.; McCormack, S. G.; Laing, Maybelle; McConkey, Kate; Gibson, Ethel; Hutchison, J. H. Div. III—Cooke, Walter; Thompson, Lottie; Malone, Vida; Wright, T. H.

*Junior Philosophy*—Div. I, Chambers, L. P.; Dark, T. A.; Duff, Isobel; Brydon, R.; Schrag, A. R.; Bailey, W. L.; Marshall, D. H.; Guggisberg, W.; Dadson, Helena, Graham, Violet B., equal; Hall, T. J., Polson, S. M., equal; Jones, F. A., McNab, A. J., Playfair, W., equal; Elder, C. Hosie, Murphy, G. B., Thompson, Lottie, equal; Campbell, D.; Snowden, H. A. Div. II—Clark, Grace; Macgregor, Grace, O'Brien, Lizzie, equal; Andrews, D., Williams, Mary J., equal; Macgregor, Annie; Barrett, H., Connor Grace, McDougall, F. H., equal; Munro, F. M.; Bennett, W., Tompkins, Louise H., equal; Hunt, Sarah A., McCallum, S., equal; Birch, Beatrice, Leitch, G. S., Stewart, J. R., equal; Gibson, Ethel; Jackson, Fannie A.; McCutcheon, J. M.; McDougall, L. M., Pettit, L. M., equal; Landman, I.; McDonald, J., Ostrom, Ethel, equal; Sparks, W. F., Thibaudeau, P. H., equal; Caldwell, Max; Hainer, F. L., Race, W. B., equal; Britton, A., Fraser, G. E., Pierce, Ada E., equal; Malone, Vida, McKellar, Katie, equal; Curtin, J. C.; Maxwell, Mary E.; Platt, E. O.; Mahood, A. E.; Anglin, S. M., Buchanan, Mabel, Robb, J. J., equal; Moore, Margret, B.; Nicolle, F. R., Thornton, L. A., equal. Div. III—Hadden, A. T.; McLellan, D. M.; McCormack, Irene; Boyd, Agnes; Brown, P. W.; Redden, Marion; Couch, S.; Carey, W. J.; Watson, G. A.; Woods, I. H.; Robinson, F. A.; Hiscock, Reta; Hutchison, R. A.; Kennedy, A. H.; Walker, A. J.; Ward, H.; Bright, A.; McLeod, Lola; Miller, R. M.; Timmerman, Mary E.

*Senior Philosophy*—Div. I, Watson, Alice R.; Schrag, A. R.; Calvin, D. D.; Carefoot, G. A., Forfar, Lena M., Robertson, G. D., equal; Taylor, Mabel; McNab, A. J., Saunders, Elsie E. Walkem, K., equal. Div. II—Brick, W., Halladay, R. W., equal; Snowdon, H. A., Stewart, Martha G., equal; Goodwill, J. E. L., Macqueen, M. A., equal; McDonald, J. M.; McPhail, J. G., Ramsay, W., equal; Malloch, G. S., McLeod, K. C.; Archibald, G. G.; Cameron, A. R.; Down, G. W., McIntyre, D. N., equal; Sexton, J. H.; Graham, Elsie K., Mac-

pherson, H., Thompson, Edna, equal; Graham, R. R., Wilson, Annie J., equal; Sexsmith, M. E.; Lawlor, R. G., Young, J. M., equal. Div. III—Coad, Edith, Wilson, Jessie A., equal; McLean, R. A., Newton, Meta, equal; Fleming, W. S., Reid, E. J., Thompson, A. Y., equal; Bryson, Isabel, Horsey, Florence, Patterson, W. R., Reynolds, M., equal; Macgillivray, T. D., McIntyre, J. M., equal; Bright, A., Dunckley, W. G., equal; Cumming, Lucy, Ferguson, J., Milne, M. R., equal; Dingwall, J., Porter, W. C., equal.

*Junior Political Science*—Div. I, Calvin, D. D.; Barrett, H. M.; Hall, T. F., and Murphy, G. B., equal; Guggisberg, W., and Boland, W. A., equal; Polson, S. N., and Wormwith, N. B., equal; Elder, Hosie; Campbell, D.; Kidd, A. J. Div. II—Rielly, F. J.; Aylesworth, F. L.; Fraser, G. E.; Hadden, A. T.; Chambers, L. P.; Platt, E. O.; Hainer, F. L.; Hunt, Sarah A.; Stewart, J. R.; Lindsay, M. A.; Dickson, Evelyn; Anglin, S. M.; McKerracher, D. A.; McDonald, J. M.; Cameron, A., and Archibald, G. G., equal; Campbell, A. A.; Wright, T. H. Div. III—Woods, I. H.; Mills, R. M.; Kennedy, W. A.; Thibaudeau, P. H.; Graham, Elsie, K.; Robinson, F. A.; Mundell, Alma E.; Coad, Edith.

*Senior Political Science*—Div. I, Calhoun, A.; Guggisberg, W.; Forfar, Lena M.; Barrett, H. M.; Murphy, G. B.; McQuarrie, W. J.; Elder, Hosie; Campbell, D.; Wilson, Annie J.; Polson, S. N. Div. II—Gibson, Ethel; Wilson, Jessie A.; Pocock, C.; Hadden, A. T.; Aylesworth, F. L.; Fraser, G. E.; Fleming, W. S. Div. III—Lowry, Blanche, Murphy, W. E.

*Junior Mathematics*—Div. I, Kilmer, E. E.; Knapp, E.; McLeod, N.; Hawes, Ida E.; Guy, R. D.; Macdonnell, J. M. Div. II Cameron, D. R.; Losee, J. R.; Byrnes, Marie; Fleming, A. G.; Dawson, L. M.; Curtin, C. J.; Arthur, Nellie; Gillies, D. A.; Hutton, R. L.; Platt, G. A. Div. III—Hay, W. M.; Roddick, A. M.; Watson, Alice; Scott, R. A.; Kidd, A. J.; Campbell, A. A.; Dadson, Helena; Story, G. E.; White, H. L.; McLennan, D.; Sharpe, Helena; Bailey, W. L.; Graham, J. H.; McKinnon, Alex. D.; Beggs, W.; Ettinger, J. G.; McNaughton, A.; Dingwall, D.; Lindsay, M. A.; Harrison, F. W.; Fockler, C. E.; Greaves, G.; Potter, D.; Scott, Jean M.; McGillivray, Florence; Sears, J.

*Senior Mathematics*—Div. I, McKellar, Kate; Dunlop, H. Div. II—Galbraith, T. M.; McMillan, G.; Sparks, W. F.; Brown, P. W.; Ayers, M. H.; Jones, F. A.; Caldwell, Max; Brown, T. Div. III—Hunter, H. S.; Wilson, A.; Reynolds, M.; Munro, W. A.; McPhail, J. G.; Gibson, A. S.; Macqueen, M. A.; Beveridge, R. W.; Petapiece, A. W.; Sargent, F. R.



*Junior Physics*—Div. I, Fairlie, J.; Barker, G. A.; Guy, R. D.; Cameron, D. R.; Walkem, K. Div. II—Asselstine, E. B.; Malloch, Eleanor E.; Dunlop, H.; Williams, L. J.; Dawson, L. M.; MacPhail, J. G. Div. III—Jackson, V. W.; Mother-sill, G. S.; Macqueen, M. A.; Porter, W. C.; Whinton, W. E. H.; Caldwell, Ouilla M.; Ayers, M. H.; Fleming, A. G.; Gibson, A. S.; Beveridge, R. W.; Mackay, J. M.; Sargent, R.

*Senior Physics*—Div. I, Fairlie, J.; Dark, T. A.; Asselstine, E. B.; Andrews, D.; Allan, J.; Kilmer, E. E. C.; Pearce, W. R.; Timmerman, Mary E. Div. II—Campbell, A. L.; Leitch, E. C.; Young, J. M.; Williams, L. J.; Galbraith, T. M.; Ferguson, T. R.; Duff, Isobel; MacKellar, Katie. Div. III—MacGregor, Grace; Munro, W. A.; Curtin, C. J.; Jones, F. A.; Flynn, T. A.; Bolton, L. L.; Couch, S.; MacMillan, G.; M.; Hutchison, R. A.

*Junior Chemistry*—Div. I, Cameron, D. R.; Guggisberg, W.; Stewart, Martha; Knapp, E.; White, H. T. Div. II—Dunlop, H.; McLeod, N.; Lawlor, R. G.; Guy, R. D.; Dawson, L. M.; Ayers, M. H.; McDermott, J. J.; Graham, R. R.; Platt, G. A.; Caldwell, Max; Thompson, A. Y.; Stewart, J. R. Div. III—Gillies, D. A.; Hutton, R. L.; Cumming, Lucy; Coad, Edith; Dingwall, D.; Byrnes, Marie; Losee, J. R.; Graham, Elsie; McCullagh, R. J.; McKinnon, Arch. D.; Story, G. E.; Way, S. P.; Wagar, C. M.; MacPhail, J. G.; Smith, S.; Boyd, Agnes; Mabee, H. C.

*Senior Chemistry*—Div. I, Slack, E. B.; Snowden, H. A. Div. II—Robertson, G. D.; Galbraith, T. M.; Stewart, Martha G.; Walker, H.; Whinton, W. E.; Glover, W. R.; Lawlor, R. G.; Williams, L. J.; Sparks, W. F.; MacMillan, G. Div. III—Patterson, W. R.; Horsey, Florence; Britton, A.; Sargent, F. R.; Gibson, A. S.

*Animal Biology*—Div. I, Calvin, D. D.; Walkem, Knox; Whinton, W. E. H.; Wells, E. J. Div. II—Graham, Elsie; Stewart, Martha; Newton, Meta; Stewart, Margaret; Petapiece, A. W.; McCullagh, R. J.; Dawson, L. M.; Guy, R. D. Div. III—Dingwall, Annie; Redden, Marion; McQueen, M. A.; Horsey, Florence; McKinnon, Arch. D.; Lowry, Blanche; Taylor, Helen; Caldwell, J. A.; Lawlor, R. G.; Cumming, Lucy; Silver, L. P.; Munroe, W. A.; Coad, Edith; Sargent, F. R.; Thompson, A. Y.

*Botany*—Div. I, Byrnes, Marie; Hainer, F. L.; Maclaren, C. H.; Dickson, M. Evelyn; Sparks, W. F.; Stewart, Margaret; Miller, J. H.; Guy, R. D. Div. II—Beveridge, R. W.; Silver, L. P.; Thornton, L. A.

*Geology*—Div. I, Bolton, L. L.; Maclaren, C. H. Div. II—Walker, H.; Macphail, J. G. Div. III—Leckie, N. M.; Munro, W. A.; Macqueen, M. A.; Williams, L. J.

*Elementary Mineralogy and Blowpipe Analysis*—Div. I, Wells, E. J. Div. III—Walker, H.; Johnston, W. A.; Ward, W.



**ARTS HONOUR LISTS, APRIL, 1902.**

*Latin, Preliminary*—Class I: Brydon, R.; Johnson, W. A.; Playfair, W. Class II—McLean, R. H.; Black, B. S. Class III—Dingwall, J., Kennedy, A. H., Pettit L., equal; McIntyre, D. N.; Dingwall, M.

*Latin, Final*—Class I: Sheppard, F. W.; Cameron, A. R., Cook, Gertrude, Ramsay, W., equal. Class II—Quigley, J. P.

*Roman History*—Brydon, R.; Kennedy, A. H.; Cameron, A.; Johnston, W. A.

*Greek, Preliminary*—Class II: Playfair, W.; Johnson, W. A. Class III—McLean, R. A.; Dingwall, J.; Black, B. S.

*Greek, Final*—Class I: Calhoun, A.; Thompson, A. M.; Billings, T. H.; Lowe, W. D.; Macdonnell, Logie; McInnes, W. Class II—Ramsay, W.; Malloch, G. S.

*Greek History*—Playfair, W.; Johnston, W. A.; Kennedy, A. H.; Black, B. S.; McLean, R. A.; Dingwall, J.

*French Language and Literature, Preliminary*—Class I: Clarke, Grace; Thompson, Lottie; Race, W. B. Class II—Teskey, Kathleen; Robertson, J. B.; Weese, Metta; McCormack, G.; Grant, Ethel. Class III—Saunders, Elsie; Black, Jean; Laing, Maybelle; McConkey, Kate.

*French, Final*—Class I: Williams, W. H. Class II—Foik, H. J.; McCrimmon, Annie L. Class III—Fleming, Maude; Flath, Emma.

*German Language and Literature, Preliminary*—Class I: Thompson, Lottie; McCormack, S. G.; Weese, Metta. Class II—Teskey, Kathleen; Clarke, Grace. Class III—Saunders, Elsie; McConkey, Kate; Grant, Ethel; Laing, Maybelle; Pound, F. J.; Thompson, Edna. Final—Class I: Foik, H. J.; Williams, W. H. Class II—McCrimmon, A. L. Class III—Flath, E.

*German Literature*—Class I: Saunders, Elsie; Thompson, Lottie; Teskey, Kathleen. Class II—Weese, Metta; Clarke, Grace. Class III—Grant, Ethel; Thompson, Edna; Tompkins, Louise; Laing, Maybelle; McConkey, Kate.

*Italian*—Div. I, Williams, W. H. Div. II—Fleming, Maude.

*English Preliminary*—Class I: Shibley, G. R. Class II—Kennedy, A. H.; Pettit, Louis; Saunders, Elsie; Chamber, L. P.; Polson, Stuart M.; Thompson, Lottie; Grey, Stearns. Class III—Forfar, Lena; Teskey, Kathleen; Newton Meta; McConkey, Kate; Grant, Ethel I.; Race, W. B.; Ingall, E. E.; McCormack, S. G.; McGregor, Annie K.; Gibson, Ethel B.; Pound, F. J.; Black, Jean.

*English, Intermediate*—Class II: Calvin, D. D.; MacKinnon, A. G.; Stewart, Margaret. Class III—Britton, A.; Allison, Mary L.; Shaw, Lily; Redden, Marion; Hutchison, J. H.

*English, Final*—Class I: Vaux, Lilian; Smirle, Harriet; Hewton, Gertrude. Class II—Shibley, G. R.; Malloch, G. S.; Miller, Eva M.; Gray, J. M.; Macdonnell, L. M.; Kidd, C. E. Class III—McCrimmon, Annie; Newton, Meta.

*History, Preliminary*—Class I: Walkem, Knox; Wilson, Jessie; Slack, E. B.; Dickson, Evelyn. Class III—Cummings, Lucy; Robertson, J. B.

*History, Final*—Class I: Donnell, J. A.; Mason, G. W. Class II—Newton, Meta; Grey, S.; Sexsmith, M. E.

*Political Science, Preliminary*—Class I: Byrnes, Marie. Class II—Ward, W.

*Political Science, Final*—Class I: Donnell, J. A.; Mason, G. W. Class II—McConachie, J. C. Class III—Sexsmith, M. E.

*Mathematics, Preliminary*—Dark, T. A.; Andrews, D.; Hutchison, R. A.; Asselstine, E. B.; Ferguson, T. R.; Pearce, W.; R.; Campbell, A. L.; Pentland, G. E.; Calvin, J. D.

*May substitute for Senior Mathematics and Optional Subjects*—Brown, J. W.

#### SUBJECTS, GROUP I. HONOUR MATHEMATICS.

*Syn. Solid Geometry*—McKechnie, J. B.; McEwen, G. G.; Duff, Isobel; Simpson, B. L.; Cowan, S. A.; Allen, J.; Dunlop, J. E. S.

*Spherical Trigonometry and Astronomy*—McKechnie, J. B.

*Calculus I*—Allan, J.; McKechnie, J. B.; McEwen, G. G.; Duff, Isobel K.; Longmore, H. B.; Simpson, B. L.; Cowan, S. A.

*Mathematics, Final*—Class I: McKechnie, J. H.; McNab, G. G.; Dwyer, J. G.; Warren, L. A. H. Class II—Grant, J. G.; Ruttan, E.

*Preliminary Honours, Philosophy*—Class III: McSporran, J. A.

*Final Honours, Philosophy* (full course)—Class I: McEachran, J. M.; Wilson, R. A.; Whiting, C. C.

*Honours in Philosophy* (partial course)—Class I: McNab, Elizabeth.

*Physics, Preliminary*—Class I: McKechnie, J. B.; Robertson, G. D. Class II—McEwen, G. G.; Mitchell, J. V.; Lawlor, R. G. Class III—Grant, J. G.; Thompson, A. J.; Simpson, B. L.; McCullough, R. J.

*Botany, Preliminary*—Class I: Wells, E. J.; Hagan, J. W.; Jackson, V. W.; Snowdon, H. A. Class II—Power, Gertrude.

*Botany, Final*—Class I: Fletcher, W. H.; Voaden, J.; Bloor, W. R.; Chambers, R.

*Animal Biology, Preliminary*—Class I: Wells, Ernest J.; Hagan, J. W.; Nicolle, F. R. Class II—Jackson, V. W.; Halladay, R. W.; Robb, J. J.; Patterson, W. R. Class III—Stewart, J. R.; Mahood, A. E.; Graham, Colin; Petapiece, A. W.; McIntyre, J. M.

*Animal Biology, Final*—Class I: Fletcher, W. H.; Voaden, John; Bloor, W. R.; Chambers, R. Class III—Reynolds, M.; Hopkins, L. W.

*Chemistry, Preliminary*—Class I: Chambers, jr., R.; Nicolle, F. R.; McCallum, S. Class II—Bloor, W. R., and Fletcher, W. H.; Mahood, A. E., and Robb, J. J.; Baines, A. W. Class III—Reynolds, M.; Munro, W. A.

*Chemistry, Final*—McDougall, F. H. . Class II—Dunkley, W. G.

*Industrial Chemistry*—Class I: McCallum, S. Class II—Baines, A. W. Class III—Munro, W. A.

*Physical Chemistry*—Class I: McDougall, F. H.

*Mineralogy, Preliminary*—Class I: McCallum, S.

*Mineralogy, Final*—Class III: McDougall, F. H.; Dunkley, W. G.

*Petrography, Preliminary*—Class I: Bolton, L. L. Class II—McDougall, F. H.

*Economic Geology*—Class II: McDougall, F. H. Class III—Dunkley, W. G.

*Geology and Palaeontology, Preliminary*—Bolton, L. L.

## PRACTICAL SCIENCE.

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SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1901.

*Algebra of Junior Mathematics*—Milden, A. J.

*Senior Mathematics*—MacKenzie, G. C.

*Junior Physics*—Wright, Albert; Keith, G. C.; Chappelle, J. W. S.

*Senior Physics*—MacKenzie, G. C.; Webster, A. R.

*Senior Chemistry*—MacKenzie, G. C.

*Chemistry of Metals only*—Gordanier, W. F.

*Elementary Mineralogy and Blowpipe Analysis*—Wilson, E. E. D.; Dobbs, W. S.; Wright, A.; Tett, B.; Mackenzie, G. C.; Chappelle, J. W. S.; Chaplin, G. W.

*Descriptive and Determinative Mineralogy*—Silver, L. P.; Gleeson, J. V.

*Electrical Engineering*—Noble, D. S.

*Geology*—Chaplin, G. W.; Tett, B.; Chappelle, J. W. S.

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SESSIONAL EXAMINATIONS, APRIL, 1902.

*Junior Chemistry*—Div. I, Way, W.C.; Rogers, C.S.G.; Bateman, G. C.; Grant, J. R.; Dillabough, J. V.; Cairns, D. D.; Ross, D. E. Div. II—Sloan, D.; Cartwright, C. T.; Baker, C. W.; McIlquham, W. L.; Carr-Harris, A.; Fairlie, T.; Stanley, J. N.; Law, C. E.; Scott, H. H.; Shaver, P. A. Div. III—McEwen, R. L.; Collins, E. A.; Paterson, R. K.; Purdy, G. M.; Nichols, D. A.; Gage, R. G.; Wilson, R. T.; Garrow, R. M.

*Senior Chemistry*—Div. I, Brown, T.; Stanley, J. N., M.A.; Dennis, E. M.; Thomas, Louis; McKay, R. B. Div. II—Rogers, C. S. G., M.A.; Corkill, E. T.; Dobbs, W. S.; Reid, F. D.; Squire, R. L.; Wilson, E. E. D.; Cavers, T. W.; Anson-Cartwright, R. H. Div. III—Redmond, A. V.; Webster, A. R.; Sutherland, T. F.; Strachan, B. O.; Tett, B.; Belfour, H. M.; Chappelle, J. W.; Workman, J. K.

*Qualitative Analysis*—Div. I, Dennis, E. M.; Rogers, C. S. G., M. A.; Stanley, J. N., M.A.; Cavers, T. W.; Squire, R. L. Div. II—Thomas, L.; Wilson, E. E. D.; Brown, T.; Graham, S. N.; McKay, R. B.; Reid, F. D.; Belfour, H. M.; Anson-Cartwright, R. H. Div. III—Corkill, E. T.; Hunt, H. R.; Sutherland, T. F.; Strachan, B. O.; Wright, A.

*Physical Chemistry*—Div. I, McCallum, H. E.; MacNeill, W. K. Div. II—Reid, J. A.

*Industrial Chemistry Science* (Course A)—Div. I, Baker, J. C.; Bartlett, J.; Jackson, H. G. Div. II—Mackie, F. H.; Graham, S. N.; Mackenzie, G. C.; McDiarmid, S. S.; Wilgar, W. P.; Knight, C. W.; Finlayson, M. D. Class III—Malone, E.; Chaplin, G. W.; Drummond, L. E.; Pense, E. H. Course B, Div. I—McNeill, W. K.; McCallum, H. E. Div. III—Redmond, V.; Gleeson, J. V.

*Organic Chemistry*—Div. I, McCallum, H. E., B.A.; McNeill, W. K. Div. III—Fife, J. A.

*Chemistry of Metals*—Div. II, Thompson, A. T.; Rose, S. L. Div. III—Smvth, W. L.; Milden, A. J.

*Elementary Mineralogy and Blowpipe Analysis*—Div. I, Way, W. C.; Fairlie, T. U.; Cairns, D. D.; Nichols, D. A.; Garrow, R. M.; Graham, S. N.; Dennis, E.; Bateman, G. C. Div. II—Montgomery, O.; Rogers, C. S. G.; Stanley, J. N.; Sloan, D.; Carr-Harris, A.; Purdy, G. M.; McIlquham, W. L., and Ross, D. E., equal; Cavers, T. W.; Hazlett, J. W.; Brown, T.; Cartwright, C. T.; Collins, E. A. Div. III—Baker, C. W.; Grant, J. R.; Thomas, L.; Cumming, A. L.; Belfour, H. M.; Strachan, B. O.

*Blowpipe Analysis*—Hunt, H. R.

*Systematic Mineralogy*—Div. I, Graham, S. N.; Knight, C. W.; Wilson, E. E. D.; Wright, A. Div. II—Squire, R.; Corkill, E. T.; Hazlett, J. W.; McKay, R. B., equal. Div. III—Anson-Cartwright, R. H. M.; Sutherland, T. F.; Hunt, H. R., equal; Reid, F. D.; Pense, E. H., equal; Mackie, G. A.

*Descriptive and Determinative Mineralogy*—Div. I, Baker, J. C.; Stillwell, A. Div. II—Baker, M. B.; Finlayson, M. D.; McKenzie, G. C.; Wilgar, W. P.; Longwell, A.; Workman, J. K.; Bartlett, J.; Jackson, H. G.; Mackie, F. H.; McCallum, H. E.; McNeill, W. K. Div. III—McDiarmid, S. S.; Tett, B.

*Quantitative Analysis and Assaying*—Div. I, Graham, S. N., B. Sc.; McDiarmid, S. S.; McCallum, H. E., B.A. Div. II—McKenzie, G. C.; Wilgar, W. P.; Jackson, H. G.; Longwell, A.; McNeill, W. K.; Knight, C. W.; Bartlett, J.; Mackie, F. H.; Baker, J. C.; Finlayson, M. D. Div. III—Swenerton, H. E., B.A.; Malone, E.; Chaplin, G. W.; Pense, E. H.; Tett, B.

*Geology I*—Div. I, Dennis, E. M.; Stanley, J. N.; McLennan, K. R.; Wells, E. J.; Brown, T.; Corkill, E. T. Div. II—Anson-Cartwright, R. H. M.; Reid, F. D.; Squire, R., equal; Strachan, B. O.; Hazlett, J. W.; Dobbs, W. S.; Knight, C. W.; McKay, R. B.; Wright, A., equal. Div. III—Sutherland, F.; Wilson, E. E. D.; Belfour, H. M.

*Geology of Canada*—Div. I, MacNeill, W. K.; McCallum, H. E.; McRae, A. D.; Baker, J. C.; Mackie, F. H.; Graham, S. N.;

Jackson, H. G. Div. II—Gleeson, J. V.; Chaplin, G. W.; Longwell, A.; Mackenzie, G. C.; Tett, B.; McDiarmid, S. S.; Finlayson, M. D.; Stillwell, A. J.; Redmond, A. V.; Bartlett, J.; Workman, J. K. Div. III—Drummond, L. E.; Silver, L. P.; Wilgar, W. P.; Pense, E. H.

*Economic Geology*—Div. I, Graham, S. N.; McCallum, H. E.; MacNeill, W. K.; Grover, G. A.; Longwell, A.; McDiarmid, S. S. Div. II—Mackenzie, G. C.; Jackson, H. G.; Mackie, F. H.; Bartlett, J.; Finlayson, M. D.; Baker, J. C.; Workman, J. K.; Wilgar, W. P.; Gleeson, J. V. Div. III—Drummond, L. E.; Stillwell, A. J.; Malone, E.

*Petrography*—Div. I, McCallum, H. E.; Graham, S. N.; MacNeill, W. K.; Longwell, A.; Bartlett, J.; Silver, L. P. Div. II—Mackenzie, G. C.; Mackie, F. H.; MacLennan, J. D.; Finlayson, M. D.; Jackson, H. G.; Workman, J. K. Div. III—Gleeson, J. V.; Redmond, A. V.; Wilgar, W. P.; Baker, J. C.; McDiarmid, S. S.; Tett, B.; Stillwell, A. J.

*Geology III, Fourth year*—Div. I, Reid, J. A. Div. II—Silver, L. P.

*Ore Dressing, Third year*—Div. I, Graham, S. N.; Mackenzie, G. C. Div. II—Baker, J. C.; Bartlett, James; McDiarmid, S. S.; Mackie, F. H.; McCallum, H. E.; Drummond, L. E.; Grover, G. A., and Wilgar, W. P., equal; Longwell, A., and Swenerton, A. H., equal. Division III—Malone, E. E.; Finlayson, M. D.; Jackson, H. G.

*Metallurgy, Third year*—Div. I, Graham, S. N., McCallum, H. E. equal; McRae, A. D.; Mackenzie, G. C. Div. II—Longwell, A.; McDiarmid, S. S.; Baker, J. C.; Bartlett, James, Finlayson, M. D., equal; Gleeson, J. V.; Jackson, H. E.; MacNeill, W. K.; Mackie, F. H.; Knight, C. W. Div. III—Drummond, L. E.; Malone, E. E.; Chappelle, J. W.; Redmond, A. V.; Wilgar, W. P.

*Mining III*—Div. I, McKenzie, G. C., Bartlett, James, Drummond, L. E., equal. Div. II—Finlayson, M. D.; McDiarmid, S. S.; Jackson, H. G.; Mackie, F. H.; Wilgar, W. P.; Baker, J. C.; Knight, C. W. Div. III—Malone, E. E.

*Mining, Fourth year*—Div. I, McNab, A. J.; Fairlie, M. F. Div. II—Noble, D. S.; Grover, G. A. Div. III—Workman, C. W.

*Mining Project, Fourth year*—Div. II, McNab, A. J.; Fairlie, M. F. Div. III—Grover, G. A.; Noble, D. S.

*Metallurgy, Fourth year*—Div. I, McNab, A. J.; Fairlie, M. F. Div. II—Scott, O. N.; Noble, D. S.; Grover, G. A. Div. III—McLennan, J. D.; Stilwell, A. J.

*Mechanical Engineering I, Third year*—Div. II, Rose, S. L. Div. III—Gordanier, W. N.; Dwyer, E. T.



- Mechanical Engineering II, Third year*—Div. II, Rose, S. L. Div. III—Gordanier, W. N.
- Mechanical Engineering IV, Fourth year*—Div. I, McNab, A. J.; Grover, G. A.; Fairlie, M. F. Div. II—Sutherland, E.; Dwyer, E. T.; Noble, D. S. Div. III—Pense, E. H.
- Electrical Engineering I, Third year*—Div. I, Rose, S. L. Div. II—Gordanier, W. N.; McDiarmid, S. S.; Baker, J. C.; Jackson, H. G. Div. III—Finlayson, M. D.; Wilgar, W. P., McLennan, K. R.; Knight, C. W., McLennan, J. D., equal; Webster, A. R.; Stilwell, A. J., Mackie, F. H., equal.
- Electrical Engineering II, Third year*—Div. I, Rose, S. L.; Gordanier, W. N.
- Electrical Engineering III, Fourth year*—Div. II, Dwyer, E. T.; Sutherland, E.
- Electrical Engineering IV, Fourth year*—Div. II, Sutherland E.; Dwyer, E. T.
- Electrical Engineering V, Fourth year*—Div. I, Sutherland, E. Div. II—Dwyer, E. T..
- Materials of Construction*—Div. I, Dennis, E. M.; Brown, T.; Stanley, J. N.; Squire, R. L. Div. II—Anson-Cartwright, R.; Wilson, E. E. D.; Stilwell, A. J.; Sutherland, F., McKay, R. B.; Corkill, E. T.; Smyth, W. L. Div. III—Milden, A. J.; Wright, A.; Belfour, W. M.; Cavers, T. W.; Strachan, B. O.
- Theory of Structures*—Div. I, Jackson, H. G.; Rose, S. L.; Craig, H. B. R. Div. II—McKenzie, G.; McDiarmid, S. S. Div. III—Noble, D. S.; Workman, C. W.; Chaplin, G. W.
- Hydraulics*—Dwyer, E.; McNab, A. J.; Noble, D. S.; Grover, G. A.; Fairlie, M. F.
- Mechanism*—Fairlie, M. F.; McNab, A. J.; Craig, H. B. R.; Gordanier, W. N.; Dwyer, E. T.; Noble, D. S.; McLennan, J. D.; Grover, G. A.; Rose, S. L. E.
- Thermodynamics I, Third year*—Div. I, Rose, S. L. Div. II—McDiarmid, S. S.; Baker, J. C.; Bartlett, J. Div. III—Gordanier, W. N.; Jackson, H. G.; Finlayson, M. D.; Stilwell, A. J.; Wilgar, W. P.
- Thermodynamics II, Fourth year*—Div. I, Dwyer, E. T.
- Drawing I*—Div. I, Dillabough, J. V.; Stanley, J. N., and Way, W. C., equal; Cairns, D. D.; Grant, J. R.; Burrows, A. G., and Baker, C. W., equal. Div. II—Cartwright, C.; Montgomery, O.; Ross, D. E., McIlquham, W. L., Carr-Harris, A., equal; Rogers, C. S. G.; Nichols, D. A., and Cavers, T. W., equal; Scott, H. H.; Sloan, D.; Purdy, J.; Paterson, R. K., Gage, R., Fairlie, T. U., equal; Collins, E. A.; Brown, T.; Chapman, C., Dennis, E., equal; Bateman, G. C.; Shaver, P.



Div. III—Eyre, W. H., and Clark, C. F., equal; McEwen, R. L.; Wilson, R.; Cummings, A. L., and Garrow, R. M., equal; Law, C. E.

*Drawing II*—Div. I. Grant, J. R.; McKay, R. B.; Wilson, E. E. Div. II—Smythe, W. L.; Corkill, E. T.; Wright, A.; Webster, A. R., Stilwell, A. J., McKenzie, G. C., equal; Anson-Cartwright, R.; Strachan, B. O.; Squire, R.; Belfour, H.; Craig, H. B. R. Div. III—Milden, A. J.; Sutherland, T. F., Finlayson, R., Hunt, G., equal.

*Surveying I*—Div. I, Stanley, J. N.; Cairns, D. D.; Grant, J. R.; Dennis, E.; Way, W. C. Div. II—Burrows, A. G.; Purdy, G. M.; McIlquham, W. S.; Rogers, C. S. G.; Brown, T.; Cartwright, C. T.; Osborne, H. B.; Dunkley, W. G.; Carr-Harris, A. Div. III—Scott, H. H.; Dillabough, J. V.; Ross, D. E.; Longwell, A.; Sloan, D.; Collins, E. A.; Fairlie, T. U.; Cairns, T. W.; Smythe, W. L.; Devitt, G. H.; Nichols, D. A.; Webster, A. R.; Clarke, C. F.; Reid, F. D.; Paterson, R. K.

*Surveying II*—Div. I, McKay, R. B.; Corkill, E. T. Div. II—McCallum, H. E.; Stilwell, A. J.; Squire, R. L. Div. III—McKenzie, G. C.; Milden, J. A.; Anson-Cartwright, R. H.; Sutherland, E. C.; Wilson, E. E. D.; Strachan, B. O.

*Surveying III*—Div. I, Wilgar, W. P.; Jackson, H. G. Div. II—McDiarmid, S. S. R.; McRae, A. D.; Mackie, F. H. Div. III—Bartlett, Jas.; Chaplin, G. W.; Finlayson, M. D.; Baker, J. C.; Gleeson, J. V.; Workman, J. K.; McKenzie, G. C.; Craig, H. R. B.

*Surveying IV*—Div. III, McRae, A. D.; McLennan, K. R.; Craig, H. B. R.

*Junior English*—Div. I, Patterson, R. K.; Cairnes, D. D., Ross, D. E., equal; Purdy, G. M. Div. II—Collins, E. A., Cartwright, C. T., Nichols, D. A., equal; McIlquham, W. L.; Scott, H. H.; Bateman, G. C.; Way, W. C.; Grant, J. R.; Fairlie, T. U.; Chapman, C. T. Div. III—Cumming, A. L.; Scott, O. N.; Carr-Harris, A.; Baker, C. W.; Garrow, R. M.; Reid, F. D.; Thompson, A. T.; Clarke, C. F.; Sloan, D.; Crothers, N. G.; Wilson, R. J.; Chappelle, J. W. S.; Law, C. E.; Strachan, B. O.

*Mathematics I*—Way, W. C.; Ross, D. E.; Montgomery, O., Dillabough, J. V., equal; Cairnes, D. D.; McIlquham, W. L.; Grant, J. R.; Fairlie, T. U.; Carr-Harris, A.; McEwen, R. L.; Scott, H. H.; Baker, C. W.; Collins, E. A.; Purdy, G. M.; Sloan, D.; Patterson, R. K.; Cartwright, C. T.; Gage, R. J., Nicholls, D. A., equal; Shaver, P. A.

*Algebra only*—Wilson, R. J.

*Trigonometry only*—Thompson, A. A.

*Algebra and Trigonometry only*—Cumming, A. L.

*Astronomy*—Div. I, Baker, H. S. Div. II—McEwen, G. G.; Dennis, E. M.; Cavers, T. W.; Cairnes, D. D.; Way, W. C.; Purdy, G. M.; Ross, D. E.; Baker, C. W.; Scott, H. H.; Grant, J. R.; Fairlie, T. U. Div. III—McIlquham, W. L.; McEwen, R. L.; Brown, T.; Montgomery, O.; Cartwright, C. T.; Dillabough, J. V.; Burrows, A. G.; Carr-Harris, A.; Bateman, J. C.; Gage, R. G.; Craig, H. B. R.; Chapman, C. T.; Nicholls, D. A.; Longwell, A.; Collins, E. A.

*Mathematics II*—Div. I, Mackay, R. B., and Dennis, E. M. Div. II—Workman, C. W.; Cavers, T. W.; McLennan, K. R.; Corkill, E. T.; Squire, R. L. Div. III—Rogers, C. S. G.; Jackson, V. W.; Reid, J. A.; Mildren, A. J.; Sutherland, T. F.; Wilson, E. E. D.; Strachan, B. O.

*Spherical Trigonometry*—Baker, M. B.; Burrows, A. G.; Longwell, A.; McLennan, J. D.

*Calculus and Conics*—Fairlie, M. F.; Bartlett, J.; Wilgar, W. P.; Jackson, H. G.; McDiarmid, S. S.; Noble, D. S.; Finlayson, M. D.

*Calculus only*—Dwyer, E. T.; Rose, S. L. E.; Craig, H. B. R.; Gordanier, W. N.; Baker, J. C.

*Conics only*—Baker, H. S.; Dennis, E. M.; Malone, E.; McKay, R. B.; Webster, A. R.; Devitt, G. H.; Cavers, T. W.

*Descriptive Geometry, Second year*—Div. II, McKay, R. B.; Smyth, W. L.; Belfour, H. M.; Webster, A. R. Div. III—Squire, R. L.; Corkill, E. T.; Wilson, E. E. D.

*Physics I*—Div. I, Cairns, D. D.; Way, W. C.; Grant, J. R.; Ross, D. E. Div. II—Scott, H. H.; Fairlie, T. U.; Baker, C. W.; Carr-Harris, A.; Dillabough, J. V.; Collins, E. A.; McIlquham, W. L.; Nichols, D. A.; Paterson, R. K.; Rogers, C. S. G.; Cartwright, C. T.; Johnson, W. A.; Purdy, G. M.; McEwen, R. L. Div. III—Smyth, W. L.; Sloan, D.; Gage, R. G.; Cummings, A. L.; Clarke, C. F.; Bateman, G. C.; Law, C. E. L. H.; Eyre, W. H. S.

*Physics II*—Div. I, Mackay, R. B.; Dennis, E. M. Div. II—Corkill, E. T.; Squire, R.; Brown, T.; Devitt, G. H.; Knight, C. W. Div. III—Noble, D. S.; Wilson, E. E.; Cavers, T. W.; Craig, H. B. R.

*Animal Biology*—Div. III, Silver, L. P.

MATRICULATION, (NOV. 1901).

*Theology*—Beckstedt, I. N., B.A.; McQuarrie, W. J.; Petrie, J. A., B.A.; Borley, H. D.; Caldwell, J. A.; McLennan, G. B., B.A.; Ferguson, J. Y.; Watts, J. D.

SUPPLEMENTARY (NOV. 1901).

- O. T. Criticism and Exegesis*—Crawford, W. F., B.A.; McLeod, K. C.; Pocock, C. E. A.  
*N. T. Criticism and Exegesis*—Crawford, W. F., B.A.; Fotheringham, R. H.; MacKinnon, A. G., B.A.  
*Junior Hebrew*—McLeod, K. C.; McSporran, J. A.; Brydon, R.  
*Senior Hebrew*—Fotheringham, R. H.; Down, G. W.  
*Church History*—Crawford, W. F., B.A.  
*B. D. Apologetics and Comparative Religion*—McConnell, J. A.

SESSIONAL EXAMINATIONS, APRIL, 1902.

- Divinity*—Div. I, Beckstedt, I. N.; Goodwill, T. W.; Petrie, J. A.; Fraser, Thurlow; Borley, H. D.; Purvis, W. W.; Fotheringham, R. H.; Solandt, D. M.; Watts, J. Div. II—Millar, J. F.; McMillan, A. J.; McIntyre, W. C.; Edmison, G.; McKinnon, A. G.; McLennan, G. B.; McConnell, J. A.; Pocock, C. E.; Brown, T. C. Div. III—McLeod, K. C.; Ferguson, J. Y.; Moore, W.; Crawford, W. F.; Caldwell, J. A.; Munro, G. Supplementary, '98-'99—McLaren, W. W.  
*Church History*—Div. I, Petrie, J. A.; Beckstedt, I. N.; Solandt, D. M.; Fraser, Thurlow; Leckie, N. M.; Borley, H. D.; Millar, J. F.; Fotheringham, R. H. Div. II—Goodwill, T. W.; McKinnon, A. G.; McLaren, W. W.; McQuarrie, W. J.; Purvis, W. W.; Watts, J.; Edmison, G.; Brown, T. C.; Crawford, W. F.; McConnell, J. A.; McIntyre, W. C.; Moore, W.; McLeod, K. C.; Caldwell, J. A.; McMillan, A. J. Div. III—Pocock, C. E.; Munro, G.; McLennan, G. B. Supplementary, 1900-'01—Div. II, Purvis, W. W. Div. III—McKinnon, A. G.  
*History of Doctrine*—Div. I, Petrie, J. A.; Beckstedt, I. N.; Fraser, Thurlow; Watts, J.; Borley, H. D.; Crawford, W. F.; Leckie, N. M. Div. II—McKinnon, A. G.; Millar, J. F.; Purvis, W. W.; Edmison, G.; Munro, G.; Goodwill, T. W.; McConnell, J. A.; McMillan, A. J.; McIntyre, W. C.; Moore, W.; Brown, T. C.; Solandt, D. M.; McLennan, G. B.; McLeod, K. C. Div. III—Caldwell, J. A.; Fotheringham, R. H.; McQuarrie, W. J.; Ferguson, J. Y.; McLaren, W. W.; Pocock, C. E.  
*N. T. Criticism and Exegesis*—Div. I, Millar, J. F.; Fraser, T.; Purvis, W. W.; Beckstedt, I. N.; Macmillan, A. J.; Solandt, D. M. Div. II—Watts, J. R.; Fotheringham, R. H.; Crawford, W. F.; McConnell, J. A.; McLennan, G. B.; Pocock, C. E.; Petrie, J. A.; McKinnon, A. G.; Edmison, G. A.; Borley, H. D.; Ferguson, J. Y. Div. III—Moore, W.; Caldwell, J. A.; McLeod, K. C.; Goodwill, T. W.; McIntyre, W. C.; Leckie, N. M.; Mahaffy, F. W. Supplementary, '98-'99—McLaren, W. W.

- Junior Hebrew*—Div. I, Bennett, W. L.; Hainer, F. L.; McPherson, Hector; McDonald, J. M.; MacInnes, W. H.; Kennedy, W.; Cameron, Alex. E.; Beckstedt, I. N. Div. II—McQuarrie, W. J. Div. III—Eastman, F. S.; Murphy, W. E.; Millar, J. H.
- Senior Hebrew*—Div. I, Petrie, J. A. Div. II—McSporran, J. A.; McKinnon, A. G.; Mahaffy, F. W. Div. III—Borley, H. D.; Crawford, W. F.; Ferguson, J. Y.
- Apologetics*—Div. I, Beckstedt, I. N.; Brown, T. C.; Watts, J. R.; Fraser, Thurlow; Fotheringham, R. H.; McMillan, A. J.; Ferguson, J. Y. Div. II—Mahaffy, F. W.; McKinnon, A. G.; McLennan, G. B.; Moore, W.; Caldwell, J. A.; McLeod, K. C.
- For B.D., Church History*—Fraser, T.; McLaren, W. W.; McDonald, J. A.
- Holy Scripture, N. T.*—Fraser, T.; McLaren, W. W.; Leckie, N. M.
- History of Doctrine*—Leckie, N. M.; McLaren, W. W.; McDonald, J. A.
- Holy Scripture, O. T.*—McLaren, W. W.; Fraser, T.; Leckie, N. M.
- Aramaic*—Leckie, N. M.; McLaren, W. W.; McConnell, J. A.
- Exegesis (Joel)*—McLaren, W. W.; McConnell, J. A. (Job) McConnell, J. A.
- Composition of Hexateuch*—McLaren, W. W.; McConnell, J. A.
- History of the Israelitish Religion*—Leckie, N. M.; McLaren, W. W.
- O. T. Criticism, 1<sup>st</sup> and 2<sup>nd</sup> year*—Div. I, McLaren, W. W.; McConnell, J. A.; Leckie, N. M. Div. II—Fraser, Thurlow; Millar, J. F.; McIntyre, W. C.; Pocock, C. E.; McMillan, A.; Edmison, G. A.; Goodwill, T. W.; Purvis, W. W. Second year, Div. II—Solandt, D. M.; Crawford, W. F.; McLeod, K. C.; McKinnon, A. G.; Moore, W. First year, Div. II—Borley, H. D.; Petrie, J. A.; Beckstedt, I. N.; Ferguson, J. Y. Div. III—McLennan, G. B.; Caldwell, J. A.; Munro, G.
- Hebrew Exegesis, Third year*—Div. I, McLaren, W. W.; McConnell, J. A.; Leckie, N. M.; Millar, J. F.; Purvis, W. W. Div. II—Fraser, Thurlow; McMillan, A.; Edmison, G. A.; Goodwill, T. W.; McIntyre, W. C. Div. III—Pocock, C. E. Second year, Div. I—McKinnon, A. G. Div. II—Solandt, D. M.; Fotheringham, R. H.; Crawford, W. F.; Mahaffy, F. W.; Moore, W. Div. III—McLeod, K. C. First year, Div. I—Beckstedt, I. N. Div. II—Petrie, J. A.; Ferguson, J. Y.; Borley, H. D.; Munro, G. Div. III—Caldwell, J. A.; McLennan, G. B.

## MEDICINE.

SUMMER SESSION, 1901.

*Botany*—Windell, H. C.; Mellow, F. E.; Smith, A. L.; McLaren, T. O.; Amos, W. W.; Reid, G. M.; Reid, R. M.; Carey, N.; Pannell, W. L.; Bleecker, G. H.; Etherington, F.; Hill, J. T.; McKechnie, W.; Gray, T. J.; Brandon, J. V.; Moore, R. G.; O'Reilly, T. J.; Connell, J. V.

*Eye, Ear, Nose and Throat*—Hunter, W. R.; St. Remy, C. de; Mellow, F. E.; Thompson, E. J.; Fahey, E. W.; Etherington, F.; Curtin, T. V.; Day, H. E.; Gage, H. E.; Stratton, C. M.

*Sanitary Science*—Dalton, F. G.; Hunter, W. R.; McLaren, T. O.; Windell, H. C.; Mellow, F. E.; Connell, J. V.; Mason, W. R.; St. Remy, C. de; Day, H. E.; Patterson, W. J.; Orser, T. H.; Gage, H. E.; Etherington, F.; Zwicker, F. G.; Weatherhead, F. G.; Reid, R. M.; Smith, A. L.; Moore, R. G.; McKechnie, W.; Crews, J. W.; Carey, N.; Stratton, C. M.; Hill, J. T.; Bleecker, G. H.; O'Reilly, T. J.; Gray, T. J.; McLaren, T. C.

*Bacteriology*—Etherington, F.; Dalton, G. F.; Day, H. E.; Orser, T. H.; McLaren, T. O.; Patterson, W. J.; Reid, R. M.; St. Remy, C. de; Mellow, F. E.; Zwicker, F. G.; Hunter, W. R.; Gage, H. E.; Windell, H. C.; Weatherhead, F. G.; Stratton, C. M.; Carey, N.; McLaren, T. C.; O'Reilly, T. J.; Connell, J. V.; McKechnie, W.; Crews, J. W.; Smith, A. L.; Moore, R. G.; Hill, J. T.; Jones, L. W.; Kennedy, D. B.

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## II. SUPPLEMENTARY EXAMINATIONS, SEPT., 1901.

*Animal Biology and Junior Physiology*—Dawson, J. K.

*Junior Materia Medica*—Fifield, R. J.

*Senior Anatomy*—Robertson, J. J.

*Senior Physiology*—Crews, J. W.; Fifield, R. J.; Bleecker, G. H.; Scott, R. H.; Robertson, J. J.; Hanley, G. J.

*Histology*—Hill, J. T.; McKechnie, W.; Fifield, R. J.; Robertson, J. J.; Scott, R. H.; Dawson, J. K.

*Junior Practice of Medicine*—Weatherhead, G. F.; McLaren, T. C.

*Junior Obstetrics and Paediatrics*—McLaren, T. C.

*Junior Medical and Surgical Anatomy*—McKechnie, W.; McLaren, T. C.

*Jurisprudence*—McLaren, T. C.

*Senior Materia Medica*—Gray, D. W.; McLaren, T. C.

*Senior Practice of Medicine*—Hanley, G. J.

*Senior Surgery*—McDonald, A. T.

*Clinical Medicine*—McDonald, A. T.

*Senior Obstetrics and Gynaecology*—Woodruff, G. A.

*Senior Medical and Surgical Anatomy*—McDonald, A. T.; Woodruff, G. A.

*Sanitary Science*—Hanley, G. J.

*Bacteriology*—Hanley, G. J.

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### III. SESSIONAL EXAMINATIONS, APRIL, 1902.

#### PHYSICS.

Hogan, F. J.; Robinson, E. J.; Gibson, W.; Mowry, C. M.; Locke, M.; Consitt, E. C.; Taugher, W. J.; Smith, W. A.; Wagar, C. M.; Lesses, M.; Grimshaw, M. E.; Chant, J.; Mackinnon, D. L.; Donovan, F. J.; Hourigan, J. M.; Dudley, W. H.; Keyes, S. J.; Pennock, N. I.; DeLong, E. W.; Tyner, S. E.

#### JUNIOR ANATOMY.

Williamson, H. J.; Sparks, J. F.; Hogan, J. F.; Mowry, C. M.; Mackinnon, D. L.; Leach, G.; Wagar, C. M.; Young, J. M.; Lesses, M.; Hoppin, L. W.; Dudley, W. H.; Driscoll, A. C.; Spooner, A. C.; Pennock, N. I.; Locke, M.; Donovan, F. J.; Williams, E. J. F.; Ferguson, J. Y.; Twitchell, E. G.; Gordon, G. D.; Grimshaw, M. E.; Consitt, E. C.; Macgillivray, T. D.; Hourigan, J. M.; Smith, W. A.; Robb, W. M.; Taugher, W. J.; Goodfellow, J. R.; Branscombe, M. E.; Chant, J.; Keyes, S. J.; Corrigan, J. A.; McMillan, A. D.

#### ANIMAL BIOLOGY AND JUNIOR PHYSIOLOGY.

Williamson, H. J.; Sparks, J. F.; Hogan, J. F.; Spooner, A. C.; Williams, E. J. F.; Lesses, M.; Mowry, C. M.; Grimshaw, M. E.; Locke, M.; Mackinnon, D. L.; Branscombe, M. E.; Dudley, W. H.; Ferguson, J. Y.; Pennock, N. I.; Donovan, F. J.; McMillan, A. D.; Chant, J.; Consitt, E. C.; Wagar, C. M.; Taugher, W. J.; Smith, W. A.; Hourigan, J. M.; Leach, G.; Robb, W. M.; Corrigan, J. A.

#### JUNIOR CHEMISTRY.

Hogan, F. J.; Spooner, A. C.; Consitt, E. C.; Mowry, C. M.; Chant, J.; Lesses, M.; Smith, W. A.; Robb, W. M.; Locke, M.; Dudley, W. H.; Grimshaw, M. E.; McMillan, A. D.; Donovan, F. J.; Goodfellow, J. R.; Keyes, S. J.; Pennock, N. I.; Hourigan, J. M.; Gordon, G. D.; Taugher, W. J.; Labrosse, J. L. A.; Connolly, A. K.



SENIOR ANATOMY.

Honours—Murphy, W. S.; Tandy, H.; Bennett, A. E. H.; Gibson, W.; Singleton, A. H.; McGonigle, M.; McGreer, C. G.; Robinson, E. J.; Costello, T. J.; Lalonde, A. J.; Gallivan, J. V.

Pass—Caskey, J. C.; Mackerras, R. H.; McCullough, F. C.; Carruthers, J. S.; VanNess, C. S.; Reid, V.; Rutledge, S. H.; Scott, R. H.; Goodfellow, J. R.; Dear, C. B.; Stewart, J. A.; Gillespie, J. J.; Larocque, J.; Munroe, A. T.; Connolly, A. K.; McDonald, H. A.; Falkner, A. D.; Tyner, S. E.; Sproule, E. W.; Labrosse, J. L. A.; Fifield, R. J.; Driscoll, A. C.; Ferguson, A. A.; Gray, T. J.

SENIOR PHYSIOLOGY.

Honours—Tandy, H.; Gibson, W.; Singleton, A. H.; Bennett, A. E. H.; Robinson, E. J.

Pass—Falkner, A. D.; McCullough, F. C.; Costello, T. J.; McGonigle, M.; Gallivan, J. V.; Sproule, E. W.; Munroe, A. T.; Goodfellow, J. R.; Reid, V.; Rutledge, S. H.; Brown, W. C.; Carruthers, J. S.; VanNess, C. S.; McDonald, H. A.; Dear, C. B.; Connolly, A. K.; Caskey, J. C.; Bennett, H. J.; Day, L. J.; Larocque, J.; DeLong, D. W.; Lalonde, A. J.; Young, J. M.; Corrigan, J. A.; Gillespie, J. J.; Ferguson, A. A.

HISTOLOGY.

Tandy, H.; Bennett, A. E. H.; Gibson, W.; Reid, V.; Gillespie, J. J.; McGonigle, M.; McCullough, F. C.; McDonald, H. A.; Young, J. M.; Rutledge, S. H.; Singleton, A. H.; Williams, E. J. F.; Carruthers, J. S.; Costello, T. J.; VanNess, C. S.; Robinson, E. J.; Falkner, A. D.; DeLong, E. W.; Connolly, A. K.; Goodfellow, J. R.; Sproule, E. W.; Dear, C. B.; Gray, T. J.; Bennett, H. J.; Lalonde, A. J.; Leach, G.; Munroe, A. T.; Brown, W. C.; Gallivan, J. V.; Ferguson, A. A.; Larocque, J.; Tyner, S. E.; Caskey, J. C.; Branscombe, M. E.

SENIOR CHEMISTRY.

Tandy, H.; Gibson, W.; Gallivan, J. V.; Bennett, A. E. H.; McGonigle, M.; McDonald, H. A.; Robinson, E. J.; McCullough, F. C.; Costello, T. J.; Caskey, J. C.; Sproule, E. W.; Reid, V.; Dear, C. B.; Carruthers, J. S.; Sparks, J. F.; Windell, H. C.; Falkner, A. D.; Pennock, N. I.; Dawson, J. K.; DeLong, E. W.; Rutledge, S. H.; VanNess, C. S.; Connolly, A. K.; Geddes, W. J.; Leach, G.; Lalonde, A. J.; Moore, R. G.; Gillespie, J. J.; Labrosse, J. L. A.

ANALYTICAL CHEMISTRY.

Tandy, H.; Dear, C. B.; Sparks, J. F.; McCullough, F. C.; Sproule, E. W.; Gillespie, J. J.; Macgillivray, T. D.; Lalonde, A. J.; Geddes, W. J.; McGonigle, M.; Driscoll, A. C.; Branscombe,



M. E.; Carruthers, J. S.; Williamson, H. J.; Williams, E. J. F.; Labrosse, J. L. A.; Robinson, E. J.; Ferguson, A. A.; VanNess, C. S.; Leach, G.; Brown, W. C.; Singleton, A. H.; Gibson, W.; Ballantyne, W. H.; Mackinnon, D. L.; Rutledge, S. H.; McDonald, H. A.; Kearns, D. A.; Munroe, A. T.; Tyner, S. E.; Costello, T. J.; Bennett, A. E. H.; Delong, E. W.; Larocque, J.; Caskey, J. C.; Falkner, A. D.; Gallivan, J. V.; Gray, T. J.; Bennett, H. J.

#### JUNIOR MATERIA MEDICA.

Williamson, H. J.; Williams, E. J. F.; Bennett, A. E. H.; Spooner, A. C.; McConigle, M.; Sparks, J. F.; Falkner, A. D.; Reid, V.; Gibson, W.; Macgillivray, T. D.; Robb, W. M.; Caskey, J. C.; McCullough, F. C.; Costello, T. J.; Dear, C. B.; Mackinnon, D. L.; McDonald, H. A.; Gillespie, J. J.; VanNess, C. S.; Lalonde, A. J.; Ferguson, A. A.; Leach, G.; Locke, M.; Munroe, A. T.; Pennock, N. I.; Bennett, H. J.; Connolly, A. K.; Goodfellow, J. R.; Carruthers, J. S.; Tyner, S. E.; Ferguson, J. Y.; Branscombe, M. E.; Sproule, E. W.; Young, J. M.; Hoppin, L. W.; Gray, T. J.; Rutledge, S. H.; Delong, E. W.; Ballantyne, W. H.; Corrigan, J. A.; Larocque, J.; McMillan, A. D.; Labrosse, J. L. A.

#### JUNIOR PRACTICE OF MEDICINE.

McIntosh, G. E.; Leonard, A. H.; Laidlaw, J. H.; Ward, G. H.; Murphy, W. S.; Shireff, W. T.; Arthur, S. W.; Bell, F. M.; Ellis, F. J.; Fifield, R. J.; McGreer, C. S.; Reid, G. M.; Staley, A. A.; Eshoo, S. O.; Haskin, B. MacMillan, A. E.; Kane, J. L.; Knox, W. J.; Sheffield, E.; Dickey, J. S.; Cryan, J. H.; Pannell, W. L.; McCarthy, D. M.; McKinley, W. W.; Gibson, H. A.; Workman, W.; Kearns, D. A.; McDonell, J. J.; Robertson, J. J.; McCambridge, J. E.; McDowall, J. L.; McGreer, C. G.; Houston, D. H.; Moore, H. M.; Pritchard, J. A.; Dawson, J. K.; MacKerras, R. H.; Mylks, L. E.; Burrows, A. E.; Aylesworth, F. A.; Scott, R. H.; Stewart, A. J.; Wellwood, J. A.

#### JUNIOR SURGERY.

Ward, G. H.; McDonell, J. J.; Staley, A. A.; Kane, J. L.; Shireff, W. T.; Sheffield, E.; McLaren, T. C.; Knox, W. J.; Houston, D. H.; Haskin, B.; Reid, G. M.; Laidlaw, J. H.; Wellwood, J. A.; Gibson, H. A.; Murphy, W. S.; Cryan, J. H.; Leonard, A. H.; Moore, H. M.; MacKerras, R. H.; Robertson, J. J.; Pritchard, J. A.; Workman, W.; Dickey, J. S.; McDowall, J. L.; Burrows, A. E.; Fifield, R. J.; McGreer, C. G.; Arthur, S. W.; Bell, F. M.; Scott, R. H.; Pannell, W. L.; McCarthy, H.; McKinley, W. W.; McCambridge, J. E.; Aylesworth, F. A.; Ellis, F. J.; Weatherhead, G. F.; MacMillan, A. E.; Dawson, J. K.; Mylks, L. E.; McIntosh, G. E.

JUNIOR OBSTETRICS AND PAEDIATRICS.

Dickey, J. S.; Leonard, A. H.; Haskin, B.; Knox, W. J.; McGreer, C. G.; Ward, G. H.; Shireff, W. T.; Fifield, R. J.; Workman, W.; Bell, F. M.; Sheffield, E.; Laidlaw, J. H.; MacMillan, A. E.; MacKerras, R. H.; McIntosh, G. E.; Dawson, J. K.; Wellwood, J. A.; Kane, J. L.; Murphy, W. S.; Arthur, S. W.; Ellis, F. J.; McKinley, W. W.; McDowall, J. L.; Robertson, J. J.; Burrows, A. E.; Porter, J. B.; Cryan, J. H.; Houston, D. H.; Staley, A. A.; Stewart, A. G.; Pannell, W. L.; Mylks, L. E.; Gibson, H. A.; Kearns, D. A.; Reid, G. M.; Graham, J. A.; McCarthy, H.; Pritchard, J. A.; Aylesworth, F. A.; McCarthy, D. M.; Moore, H. M.; McDonell, J. J.; McCambridge, J. E.

JUNIOR MEDICAL AND SURGICAL ANATOMY.

Leonard, A. H.; Ward, G. H.; Dickey, J. S.; Murphy, W. S.; Laidlaw, J. H.; Bell, F. M.; Shireff, W. T.; McIntosh, G. E.; Staley, A. A.; Haskin, B.; Knox, W. J.; Arthur, S. W.; Kane, J. L.; Fifield, R. J.; McGreer, C. G.; Pannell, W. L.; Wellwood, J. A.; MacMillan, A. E.; Reid, G. M.; Mackerras, R. H.; Ellis, F. J.; Gibson, H. A.; McKinley, W. W.; McCarthy, D. M.; Moore, H. M.; Aylesworth, F. A.; Robertson, J. J.; McCambridge, J. E.; Pritchard, J. A.; Porter, J. B.; Workman, W.; Burrows, A. E.; Mylks, L. E.; Cryan, J. H.; McCarthy, H.; McDowall, J. L.; Houston, D. H.; Dawson, J. K.; McDonell, J. J.

JUNIOR PATHOLOGY.

Laidlaw, J. H.; Reid, G. M.; Sheffield, E.; Ellis, F. J.; Bell, F. M.; Ward, G. H.; Leonard, A. H.; McIntosh, G. E.; Arthur, S. W.; Wellwood, J. A.; McCambridge, J. E.; Gibson, H. H.; Knox, W. J.; Kane, J. L.; Dickey, J. S.; Haskin, B.; Leach, G.; Shireff, W. T.; McCarthy, D. M.; Staley, A. A.; Cryan, J. H.; Fifield, R. J.; Pannell, W. L.; MacMillan, A. E.; McKinley, W. W.; McCarthy, H.; Aylesworth, F. A.; Young, J. M.; McDonell, J. J.; McLaren, T. C.; McDowall, J. L.; Burrows, A. E.; Workman, W.; Pritchard, J. A.; Porter, J. B.; Kearns, D. A.; Williams, E. J. F.; Mylks, L. E.; Houston, D. H.; Graham, J. A.; Robertson, J. J.; Scott, R. H.; O'Reilly, T. J.; Moore, H. M.; Branscombe, M. E.

MEDICAL JURISPRUDENCE.

Honours—Bell, F. M.; Murphy, W. S.; Shireff, W. T.; Knox, W. J.; Singleton, A. H.; Dickey, J. S.; Cryan, J. H.; McIntosh, G. E.; Kane, J. L.; Leonard, A. H.; McDowall, J. L.

Pass—Reid, G. M.; Ward, G. H.; Pritchard, J. A.; McGreer, C. G.; Ellis, F. J.; Aylesworth, F. A.; Pannell, W. L.; Houston, D. H.; Arthur, S. W.; Staley, A. A.; McKinley, W. W.; Moore,

H. M.; Fifield, R. J.; McDonell, J. J.; McCambridge, J. E.; Gibson, H. A.; McCarthy, D. M.; Reekie, J. S.; Workman, W.; Macmillan, A. E.; Mylks, L. E.; Burrows, A. E.; Mackerras, R. H.; Robertson, J. J.; Haskin, B.; Austin, C. J.; Wellwood, J. A.; Branscombe, M. E.; Stewart, A. J.

SENIOR MATERIA MEDICA, THERAPEUTICS AND PHARMACY.

Honours—Laidlaw, J. H.; Ward, G. H.; Murphy, W. S.; Knox, W. J.; Tandy, H.; Leonard, A. H.; Singleton, A. H.; Reid, G. M.; Robinson, E. J.; Pannell, W. L.; McGreer, C. G.; Dickey, J. S.; Arthur, S. W.

Pass—McCambridge, J. E.; Haskin, B.; McIntosh, G. E.; Cryan, J. H.; Kane, J. L.; Moore, H. M.; Workman, W.; Macmillan, A. E.; Gibson, H. A.; McCarthy, D. M.; McKinley, W. W.; Ellis, F. J.; Shireff, W. T.; Mylks, L. E.; McDowall, J. L.; McDonell, J. J.; Wellwood, J. A.; Fifield, R. J.; Aylesworth, F. H.; Pritchard, J. A.; Burrows, A. E.; Robertson, J. J.; Geddes, W. J.; McCarthy, H.; Porter, J. B.; Graham, J. A.; Dawson, J. K.; Houston, D. H.

SENIOR PRACTICE OF MEDICINE.

Honours—Day, H. E.; Dalton, G. F.; Etherington, F.; Smith, A. L.; Mason, W. R.; Jones, L. W.; St. Remy, C. de; Zwicker, F. G.; Patterson, W. J.; Mellow, F. E.

Pass—Amos, W. W.; Orser, T. H.; Connell, J. V.; McLaren, T. O.; Windell, H. C.; Crews, J. W.; Stratton, C. M.; Moore, R. G.; Hughes, R. E.; Reekie, J. S.; Merrill, J. W.; Weatherhead, G. F.; McLaren, T. C.; Bleecker, G. H.; O'Reilly, T. J.; Nash, P. I.; Hill, J. T.; Gage, H. E.; Reid, R. M.; Eshoo, S. O.; McKechnie, W.; McDonald, A. T.

CLINICAL MEDICINE.

Mellow, F. E.; Day, H. E.; Dalton, G. F.; St. Remy, C. de; Windell, H. C.; McLaren, T. O.; Etherington, F.; Orser, T. H.; Merrill, J. W.; Stratton, C. M.; Amos, W. W.; Mason, W. R.; Reekie, J. S.; Reid, R. M.; Gage, H. E.; McLaren, T. C.; Crews, J. W.; Moore, R. G.; Connell, J. V.; O'Reilly, T. J.; Eshoo, S. O.; Jones, L. W.; Bleecker, G. H.; Hill, J. T.; Spotswood, W. A. J.; Nash, P. I.; Carey, N.; Zwicker, F. G.; Hughes, R. E.; Smith, A. L.; Patterson, W. J.; McKechnie, W.; Kennedy, D. B.

SENIOR SURGERY.

Honours—Dalton, G. F.; Patterson, W. J.; Reekie, J. S.; Weatherhead, G. F.; Etherington, F. E.; Crews, J. W.; Connell, J. V.; Jones, L. W.; McLaren, T. O.; Zwicker, F. G.; Windell, H. C.; Day, H. E.; Mason, W. R.; Stratton, C. M.; St. Remy, C. de; Merrill, J. W.; Orser, T. H.; O'Reilly, T. J.; Mellow, F. E.

Pass—Eshoo, S. O.; Smith, A. L.; Amos, W. W.; Moore, R. G.; McKechnie, W.; Hill, J. T.; Bleecker, G. H.; Spotswood, W. A. J.; Gray, D. W.; Kennedy, D. B.; Nash, P. I.; Hughes, R. E.; Gage, H. E.; McLaren, T. C.; Carey, N.; Reid, R. M.; McDonald, A. T.

#### CLINICAL SURGERY.

St. Remy, C. de; Dalton, G. F.; Windell, H. C.; Merrill, J. W.; Jones, L. W.; McLaren, T. O.; Nash, P. I.; O'Reilly, T. J.; Day, H. E.; Etherington, F.; Reekie, J. S.; Mellow, F. E.; Mason, W. R.; Gage, H. E.; Connell, J. V.; Stratton, C. M.; Amos, W. W.; Reid, R. M.; Eshoo, S. O.; Spotswood, W. A. J.; Zwicker, F. G.; Crews, J. W.; Moore, R. G.; Hill, J. T.; Carey, N.; Patterson, W. J.; Orser, T. H.; McKechnie, W.; Smith, A. L.; Kennedy, D. B.; Weatherhead, G. F.; Hughes, R. E.; Bleecker, G. H.

#### SENIOR OBSTETRICS AND GYNAECOLOGY.

Honours—Dalton, G. F.; Windell, H. C.; St. Remy, C. de; Orser, T. H.; Etherington, F.; McLaren, T. O.; Stratton, C. M.; Patterson, W. J.; Amos, W. W.; Mellow, F. E.; Mason, W. R.

Pass—Day, H. E.; Jones, L. W.; Moore, R. G.; Reekie, J. S.; Crews, J. W.; Nash, P. I.; Smith, A. L.; Hughes, R. E.; Reid, R. M.; Merrill, J. W.; Gage, H. E.; Weatherhead, G. F.; Bleecker, G. H.; Zwicker, F. G.; O'Reilly, T. J.; Carey, N.; Connell, J. V.; Hill, J. T.; McKechnie, W.; Eshoo, S. O.

#### SENIOR MEDICAL AND SURGICAL ANATOMY.

Honours—Mellow, F. E.; St. Remy, C. de; Mason, W. R.; Day, H. E.; Dalton, G. F.; Stratton, C. M.; Patterson, W. J.; Amos, W. W.; McLaren, T. O.; Windell, H. C.; Jones, L. W.; Reekie, J. S.; Connell, J. V.; Reid, R. M.

Pass—McKechnie, W.; Nash, P. I.; Orser, T. H.; Merrill, J. W.; Gage, H. E.; Hill, J. T.; Crews, J. W.; Smith, A. L.; Spotswood, W. A. J.; Bleecker, G. H.; Weatherhead, G. F.; Hughes, R. E.; O'Reilly, T. J.; Carey, N.; Zwicker, G. F.; Kennedy, D. B.; Moore, R. G.; Graham, D.; Eshoo, S. O.

#### SENIOR PATHOLOGY.

Honours—St. Remy, C. de; McLaren, T. O.; Dalton, G. F.; Etherington, F.; Mellow, F. E.; Crews, J. W.; Mason, W. R.; Orser, T. H.; Windell, H. C.

Pass—Connell, J. V.; Amos, W. W.; Gage, H. E.; Stratton, C. M.; Merrill, J. W.; Nash, P. I.; Day, H. E.; Reekie, J. S.; Jones, L. W.; Patterson, W. J.; Hughes, R. E.; McLaren, T. C.; Reid, R. M.; Zwicker, F. G.; Graham, D.; Weatherhead, G. F.; Moore, R. G.; Carey, N.; Spotswood, W. A. J.; Bleecker, G. H.;

McKechnie, W.; Eshoo, S. O.; Hill, J. T.; O'Reilly, T. J.; Smith, A. L.

SANITARY SCIENCE.

Amos, W. W.; Hughes, R. E.; Eshoo, S. O.

BACTERIOLOGY.

Honours—Mason, W. R.; Sheffield, E.; Staley, A. A.; Ward, G. H.

Pass—Pritchard, J. A.; Spotswood, W. A. J.; Eshoo, S. O.; Day, L. J.; Amos, W. W.; Houston, D. H.; Gray, D. W.; Bleecker, G. H.; Hughes, R. E.

# LIST OF STUDENTS.

SESSION 1901-1902.

## IN ARTS.

NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
Aikin, J. A. . . . .	4	Hamilton. . . . .	Orangeville H. S.
Allen, John. . . . .	3	Napanee. . . . .	Napanee C. I.
Allison, Mary L. . .	5	Adolphustown. . . .	Picton, H. S.
Anderson, David . .	1	New Westminster B. C. . . . .	Aberdeen University, Scotland
Anderson, P. McC. .	4	Belleville. . . . .	Belleville H. S.
Andrews, D. . . . .	1	West Lorne . . . .	Dutton H. S and Ridge- town C. I.
Anglin, S. M. . . . .	2	Battersea. . . . .	Albert Coll., Belleville.
Archibald, G. G. . .	3	Truro, N. S. . . . .	Truro, Academy
Armour, Amy A. . .	2	Almonte. . . . .	Lindsay C. I.
Arthur, Leona M. . .	2	Consecon. . . . .	Picton H. S.
Arthur, Nellie. . . .	1	Consecon. . . . .	Picton H. S.
Asselstine, E. B. . .	2	Wilton. . . . .	Napanee C. I.
Asselstine, Frances M. . . . .	6	Kingston. . . . .	Kingston C. I.
Aylesworth, F. L. .	5	Kingston. . . . .	Kingston C. I.
Asselstine, Lizzie. .	2	Asselstine P. O. . .	Kingston C. I.
Aylesworth, Mabel E. . . . .	1	Bath. . . . .	Kingston C. I.
Ayers, M. H. . . . .	2	Saron, Alta. . . . .	Beamsville H. S.
Bailey, W. L. . . . .	1	Gravenhurst . . . .	Gravenhurst H. S.
Bailie, A. A. . . . .	3	Billing's Bridge. . .	Ottawa C. I.
Baines, A. W. . . . .	2	Warton. . . . .	
Barker, G. A. . . . .	1	Sidney Crossing. . .	Peterboro C. I.
Barrett, H. M. . . . .	2	Windsor. . . . .	Windsor C. I.
Beckett, S. E. J. . .	4	Listowel. . . . .	Goderich C. I.
Beggs, W. . . . .	1	Hallville. . . . .	Morrisburg & Kempt- ville C. I.
Bennett W. L. . . . .	2	Port Hope. . . . .	Port Hope H. S.
Berney, Laura E. . .	1	Lyndhurst. . . . .	Athens.
Beveridge, R. W. . .	2	Port Elmsley. . . .	Smith's Falls H. S.
Billings, T. H. . . . .	4	Lyn. . . . .	Brockville C. I.
Birch, Beatrice D. .	4	Kingston. . . . .	Kingston C. I.
Black, B. S. . . . .	3	Kingston. . . . .	Kingston C. I.
Black, Jean B. . . . .	7	Hamilton. . . . .	Hamilton C. I.

NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
Blane, W.....	2	Renfrew.. . . .	Renfrew H. S.
Bloor, W. R.....	4	Ingersoll.. . . .	Ingersoll H. S.
Boland, W. A.....	2	Micksburg.. . . .	Renfrew H. S.
Bolton, L. L.....	4	Portland.. . . .	Athens H. S.
Borley, H. D.....	4	Mount Brydges...	Strathroy C. I.
Bowen, R. J.....	1	White Horse, Yu- kon Ter.. . . .	Church Coll, London, Eng.
Boyd, Agnes.....	4	Kingston.. . . .	Kingston C. I.
Brick, N. W.....	4	Kingston.. . . .	Hamilton C. I.
Bright, A.....	2	Montreal.. . . .	Montreal H. S.
Britton, A. H.....	3	Kingston.. . . .	Kingston C. I.
Brown, A. H.....	1	Belgrave.. . . .	Toronto University.
Brown, G. A.....	2	Oak Grove....	Renfrew H. S.
Browne, P. J.....	1	Kingston.. . . .	Regiopolis Coll., King- ston.
Brown, P. W.....	3	Newburg.. . . .	Smiths' Falls H. S.
Brown, R. J.....	2	Hintonburg.. . .	Owen Sound C. I.
Brydon, R.. . . .	3	Oustic.. . . .	Guelph C. I.
Bryson, Isabel....	3	Ottawa.. . . .	Ottawa Ladies' College.
Buchanan, J. D....	1	Vancouver, B. C..	Brantford C. I.
Buchanan, Mabel A	1	Lanark.. . . .	Lanark H. S.
Burns, Olive M....	1	Bromley.. . . .	Kingston C. I.
Burr, Lenne.....	3	Ameliasburg .. .	Albert Coll.
Byrnes, Marie.. . .	3	Cumberland .. .	Smith's Falls H. S.
Caldwell, J. A....	4	Watson's Corners.	Almonte H. S.
Caldwell, O. Max..	2	Lanark.. . . .	Lanark P. S.
Calhoun, A.....	3	Ottawa.. . . .	Deseronto H. S.
Calvin, D. D.....	4	Kingston.. . . .	Woodstock College.
Calvin, J. D.....	2	Kingston.. . . .	Kingston C. I.
Cameron, A. E....	3	Wemyss.. . . .	Perth C. I.
Cameron, A. R....	3	Morrisburg.. . .	Morrisburg C. I.
Cameron, D. R....	1	Lancaster.. . . .	Alexandria H. S.
Cameron, J. S....	5	Ingersoll.. . . .	
Campbell, A. A...	1	Pembroke.. . . .	Renfrew H. S.
Campbell, A. L....	2	Fergus.. . . .	
Campbell, D.. . . .	2	Egansville.. . . .	Renfrew H. S.
Campbell, Marg'ret A.....	4	Smith's Falls.. .	Smith's Falls H. S.
Carefoot, G. A....	4	Newmarket....	Collingwood C. I.
Carey, W. J.....	2	Belleville.. . . .	Albert Coll., Belleville.
Cattanach, Jessie S	2	Williamstown .. .	Williamstown H. S.
Chambers, L. P....	2	Bardezag, Ismidt,	Robert College.
Chambers, R.....	4	Turkey in Asia	Constantinople.



NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
Charlesworth, J. W	5	Guelph.. . . .	Private tuition.
Chrysler, P. H....	1	Ottawa.. . . .	Ashbury Coll., Ottawa.
Clark, Grace.....	2	London.. . . .	Kingston C. I.
Coad, Edith.....	4	Brockville.. . . .	Brockville C. I.
Collins, Harry.....	2	Quebec.. . . .	Chatham C. I.
Connor, Grace L..	2	Kingston.. . . .	Kingston C. I.
Cook, Gertrude A..	4	Stratford.. . . .	Stratford C. I.
Cooke, W. J.....	2	Cataraqui.. . . .	Kingston C. I.
Cooper, A. B.....	4	Branchton.. . . .	Parkdale C. I.
Couch, S.. . . .	2	Chiselhurst .. . . .	London C. I.
Cowan, M. Edith..	3	Ottawa.. . . .	Ottawa C. I.
Cowan, S. G.....	4	Peterboro.. . . .	Peterboro C. I.
Cumming, A. W..	2	Cornwall.. . . .	Cornwall H. S.
Cumming, Lucy....	4	Lyn.. . . .	Brockville C. I.
Curtin, C. J.....	2	Brockville.. . . .	Brockville C. I.
Dark, T. A.....	2	Wicklow.. . . .	Cobourg C. I.
Dawson, L. M....	1	Ottawa.. . . .	Ottawa C. I.
Dadson, Helena M	2	Port Stanley.. . . .	St. Thomas C. I.
Darroch, W. F....	3	Brantford.. . . .	Harriston H. S.
Dickson, M. Eve- lyn.. . . .	4	Kingston.. . . .	Kingston C. I.
Dingwall, Annie C.	3	Cornwall.. . . .	Cornwall H. S.
Dingwall, D. G....	1	Lancaster.. . . .	Williamstown H. S.
Dingwall, J.. . . .	3	Cornwall .. . . .	Cornwall H. S.
Dingwall, M.. . . .	3	Cornwall.. . . .	Cornwall H. S.
Donnell, J. A . . .	5	Beaverton.. . . .	Lindsay C. I.
Donovan, Gertrude	5	Kingston.. . . .	Kingston C. I.
Dowkes, W. J....	2	Welland.. . . .	Owen Sound C. I.
Down, G. W.....	3	Aberfoyle.. . . .	Charing National.
Duff, K. Isobel.. .	3	Otonabee.. . . .	Peterboro C. I.
Dunkley, W. G....	4	Picton.. . . .	Napance C. I.
Dunlop, Harry....	1	Kingston.. . . .	Kingston C. I.
Dunlop, J. E. S....	3	Ventnor.. . . .	Kemptville H. S.
Dunnett, J. A. H..	2	Simcoe.. . . .	Simcoe H. S.
Dwyer, J. G.....	4	Kingston.. . . .	Kingston C. I.
Eastman, F. S.....	2	Eramosa.. . . .	Smithville H. S.
Elder, C. Hosie...	2	Elder's Mills.. . . .	Weston H. S.
Ellicott, T. W. H..	5	Kingston.. . . .	Montreal H. S.
Embury, Allan E..	2	Brampton.. . . .	.....
Errett, Bessie D..	3	Detroit, Mich.. . . .	Chatham C. I.
Ettinger, J. G.....	3	Kingston.. . . .	Listowel H. S.
Evans, J. J.....	2	Toronto.. . . .	Walkerton H. S.
Ewing, Florence M	4	Cataraqui.. . . .	Athens H. S.

NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
Fairlie, J. . . . .	3	Kingston. . . . .	Brockville C. I.
Fenwick, Chrissie..	4	Kingston. . . . .	Kingston C. I.
Ferguson, J. . . . .	3	Fergus. . . . .	London C. I.
Ferguson, J. Y....	4	Admaston....	Renfrew H. S.
Ferguson, T. R....	2	Warton. . . . .	Warton H. S.
Fetterly, H. B....	2	Winchester..	Morrisburg C. I.
Finlayson, D. K... 1		Grand River, N. S.	Grand River P. S.
Finn, J. P. . . . .	1	Plantagenet . . . .	Chatham C. I.
Flath, Emma S....	4	Kingston... . . .	Kingston C. I.
Fleming, A. G. ....	2	Craigleith. . . . .	Collingwood C. I.
Fleming, Maude E	4	Craigleith. . . . .	Collingwood C. I.
Fleming, R. W....	1	Spence's Bridge..	Watford H. S.
Fleming, W. S....	3	Franktown.. . . .	Smith's Falls H. S.
Fletcher, W. H....	4	Stratford . . . . .	Owen Sound C. I.
Flynn, T. A.....	2	Morrisburg . . . .	Morrisburg C. I.
Fockler, C. E....	2	Stouffville.. . . .	Markham H. S.
Foik, H. J.....	3	Colborne. . . . .	Stratford C. I.
Forfar, Lena M....	3	Ellesmere.. . . .	Markham H. S.
Fraser, G. E.....	2	Picton. . . . .	Picton H. S.
Gage, R. G.....	1	Riverside, Cal . . .	Riverside, Cal.
Galbraith, T. M... 2		Hamilton. . . . .	Meaford H. S.
Gavin, W. F.....	2	Melcombe. . . . .	Brockville C. I.
Gibson, A. S.....	2	Kingston. . . . .	Kingston C. I.
Gibson, Ethel B... 3		Kingston. . . . .	Kingston C. I.
Gillies, D. A.....	1	Carleton Place.. .	Carleton Place H. S.
Gober, Eva. . . . .	2	Atlanta, G. A....	Washington Sem.
Glover, W. R.....	2	Camden East . . . . .	
Goodwill, J. E. L. . 3		Charlotte'n. P.E.I.	Prince of Wales Coll.
Graham, C. W....	3	Kingston. . . . .	Kingston C. I.
Graham, Elsie K..	4	Kingston. . . . .	Kingston C. I.
Graham, J. H....	1	Metcalfe. . . . .	Kemptville H. S.
Graham, R. R....	4	Bowell. . . . .	Athens H. S.
Grant, Ethel I....	3	Martintown.. . . .	Williamstown H. S.
Grant, J. G.....	4	Toronto. . . . .	Brockville C. I.
Gray, J. M.....	5	Kingston. . . . .	Kingston C. I.
Greaves, G. A....	1	Kingston. . . . .	Kingston C. I.
Grenfell, Marion M	4	Arnprior. . . . .	Kingston C. I.
Grey, S. . . . .	3	Athens. . . . .	Athens H. S.
Guggisberg, W. . .	1	Rosthern, N.W.T	Walkerton H. S.
Guv R. D.....	2	Camden East.. . .	Newburgh H. S.
Hadden, A. T.....	2	Stouffville.. . . .	Markham H. S.
Haddow, A. W....	1	Simcoe. . . . .	Simcoe H. S.
Hagan, J. W.....	3	Walsingham Ctre.	Brantford C. I.

NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
Hainer, F. L.....	2	Stouffville.. . . .	Markham H. S.
Hall, T. F.....	2	Cobourg.. . . .	Cobourg C. I.
Halladay, R. W....	4	Elgin.. . . .	Athens H. S.
Hannohoe, Agnes G.....	3	Sturgeon Falls.. .	Lindsay C. I.
Harpell, T. W....	2	Inverary.. . . .	Inverary H. S.
Harrison, F. W....	2	Richmond Hill ..	Richmond H. S.
Harvey, J. F.....	6	Sydenham....	Sydenham H. S.
Hawes, Ida E....	1	St. Thomas.. . . .	St. Thomas C. I.
Hay, W. . . . .	1	Paisley.. . . .	Paisley H. S.
Haycock, A. W....	1	Cataraqui.. . . .	Kingston C. I.
Healey, H. W....	2	Kingston.. . . .	Kingston C. I.
Hendry, Annie S..	3	Hamilton.. . . .	Hamilton C. I.
Herald, J. G.....	1	Kingston.. . . .	Kingston C. I.
Hewton, Gertrude..	4	Kingston.. . . .	Kingston Ladies' Coll.
Hiscock, Reta....	3	Kingston.. . . .	Kingston C. I.
Holmes, F. W....	2	Kingston.. . . .	Kingston C. I.
Hoppin, L. W. . .	5	Kingston.. . . .	Kingston C. I.
Horsey, Florence M. . . . .	5	Kingston.. . . .	Kingston C. I.
Huff, S. . . . .	6	Meaford.. . . .	Private tuition.
Hutchison, J. H...	4	Amherzburg.. . .	Orillia H. S.
Hunt, Sarah A....	2	Pakenham.. . . .	Almonte H. S.
Hunter, H. S.....	4	Smith's Falls.. .	Smith's Falls H. S.
Hutchison, R. A... 3	3	Walsingham Ctre.	Aylmer C. I.
Ide, W. . . . .	2	Ottawa.. . . .	Centre for Pupil teach- ers.
Jackson, Fannie A.	2	Lindsay.. . . .	Lindsay C. I.
Jackson, V. W....	4	Fulton.. . . .	Hamilton C. I.
Jewitt, T. J.....	3	Campbell's Crsg..	Brampton C. I.
Johnson, R. W....	2	St. Thomas.. . .	Port Hope H. S.
Johnston, W. A....	3	Athens.. . . .	Athens H. S.
Jones, F. A.....	2	Brantford.. . . .	Woodstock and Brant- ford C. I.'s
Jones, J. E.....	2	Peterboro.. . . .	Collingwood C. I.
Karr, W. J.....	2	Sarnia.. . . .	Forest H. S.
Kelly, C. E.....	2	Stony Creek.. . .	Owen Sound C. I.
Kennedy, A. H....	3	Bath.. . . .	Napanee C. I.
Kennedy, W. A....	1	Stratford.. . . .	Stratford C. I.
Kerr, T. R.....	2	Portsmouth .. . .	Kingston C. I.
Kidd, A. J.....	3	Prospect.. . . .	Carleton Place H. S.
Kidd, W. L.....	2	Woodbridge .. . .	Barrie C. I.

NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
Knapp, E. . . . .	1	Battersea . . . . .	Sydenham H. S.
Kilmer, E. E. C. . . .	1	Aylmer . . . . .	Aylmer C. I. and Tor. University.
Knight, Mona N. . .	1	Kingston . . . . .	Kingston C. I.
Laidlaw, Campbell.	4	Toronto . . . . .	Georgetown H. S.
Laing, Maybelle. . . .	2	Kingston . . . . .	Kingston, C. I.
Laird, W. L. . . . .	1	Kingston . . . . .	Kingston C. I.
Landman, I. . . . .	1	Montreal . . . . .	Hughes High, Cincinnati
Lawlor, R. G. . . . .	4	Sydenham . . . . .	Sydenham H. S.
Lees, W. A. . . . .	3	Hamilton . . . . .	Hamilton C. I.
Leitch, G. C. . . . .	3	Dutton . . . . .	Dutton H. S.
LeSueur, E. Daisy.	2	Ottawa . . . . .	Ottawa C. I.
Lindsay, Muriel. . . .	2	Portsmouth . . . . .	Kingston C. I.
Lindsay, M. A. F. . .	2	Lumby, B. C. . . . .	Coll. of God's Gift, Dul- Wich, Eng.
Losee, J. R. . . . .	2	Collin's Bay . . . . .	Kingston C. I.
Loucks, W. F. . . . .	3	Melita, Man. . . . .	Napanee C. I.
Lowe, W. D. . . . .	4	Kingston . . . . .	Ottawa C. I.
Lowry, Blanche . . . .	4	Kingston . . . . .	Kingston C. I.
Mabee, H. C. . . . .	1	Odessa . . . . .	Kingston C. I.
Magee, R. W. . . . .	2	Fort William . . . . .	Port Arthur H. S.
Mahaffy, F. W. . . . .	4	Courtright . . . . .	Holland Man.
Mahood, A. E. . . . .	3	Kingston . . . . .	Kingston C. I.
Malcolm, W. . . . .	1	Tilsonburg . . . . .	Woodstock C. I.
Mallen, Leo. . . . .	1	Kingston . . . . .	Regiopolis Coll., King- ston.
Malloch, Eleanor E.	2	Hamilton . . . . .	Hamilton C. I.
Malloch G. S. . . . .	4	Hamilton . . . . .	Upper Canada College.
Malone, Vida A. . . .	4	Kingston . . . . .	Kingston C. I.
Markle, J. H. . . . .	4	Toronto . . . . .	Hamilton C. I.
Marriott, W. C. N. . .	1	Paris . . . . .	Sarnia C. I.
Marsh, W. E. . . . .	1	Hastings . . . . .	Campbellford H. S.
Marshall, D. H. . . . .	2	Camden . . . . .	St. Catharines C. I.
Mason, G. W. . . . .	4	Heathcote . . . . .	Collingwood C. I.
Maxwell, Mary E. . . .	2	Brockville . . . . .	Brockville C. I.
Meldrum, G. E. . . . .	3	Fallowfield . . . . .	Ottawa C. I.
Metcalf, W. H. . . . .	1	Ridgeway . . . . .	Cobourg H. S.
Millar, R. M. . . . .	2	Brockville . . . . .	Brockville C. I.
Miller, Eva M. . . . .	4	Switzerville . . . . .	Napanee C. I.
Miller, F. . . . .	2	Avening . . . . .	Collingwood C. I.
Miller, J. H. . . . .	3	Avening . . . . .	Collingwood C. I.
Mills, R. M. . . . .	4	Kingston . . . . .	Kingston C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Milne, M. R.....	4	Kingston.. . . .	Kingston C. I.
Mitchell, J. V.....	4	Lansdowne.. . . .	Athens H. S.
Mitchell, W. M....	1	Erin.. . . .	Hamilton C. I.
Misener, F.. . . .	1	Niagara Falls Sth.	Niagara Falls College.
Montgomery, Fan- nie.....	3	Kingston.. . . .	Kingston C. I.
Moore, Margret B.	2	Iroquois.. . . .	Iroquois H. S.
Moore, W.. . . .	6	Carleton Place ...	Carleton Place C. I.
Mudie, G. M.....	1	Kingston.. . . .	Kingston C. I.
Mothersill, G. S....	3	Ottawa.. . . .	Private tuition.
Mundell, Alma E..	5	Kingston.. . . .	Kingston, C. I.
Munro M. F.....	2	Lancaster.. . . .	Williamstown H. S.
Munro, W. A.....	5	Chesterville .. .	Kemptville H. S.
Munroe, Maggie...	2	Iroquois.. . . .	Iroquois H. S.
Murphy, G B.....	2	Elgin.. . . .	Brockville C. I.
Murphy, W. E.....	4	Rosemont.. . . .	Collingwood H. S.
Mugan, J. J.....	1	Kingston.. . . .	
McCallum, S.. . . .	3	Brewer's Mills. ..	Gananoque H. S.
McConachie, J. C..	4	Cranston.. . . .	Hamilton C. I.
McConkey, Kate M. R.. . . .	2	Brockville.. . . .	Brockville C. I.
McCormack, Irene.	3	Kingston.. . . .	Kingston C. I.
McCormack, S. G..	3	Lyn.. . . .	Brockville C. I.
McCrimmon, An- nie L.. . . .	4	Alexandria.. . . .	Alexandria H. S.
McCutcheon, J. M.	2	St. Thomas.. . . .	Listowel H. S.
McDermott, J. J....	1	Kingston.. . . .	Kingston C. I.
Macdonald, J.. . .	2	Brockville.. . . .	Brockville C. I.
McDonald, J. M....	3	Orangeville .. .	Orangeville H. S.
Macdonnell, J. M..	2	Kingston.. . . .	Kingston C. I.
Macdonnell, L. M..	5	Fergus.. . . .	Upper Canada College.
McDougall, F. H..	4	Maxville.. . . .	Alexandria H. S.
McDougall, L. M..	2	Brockville.. . . .	Brockville C. I.
McEachern, G. D..	2	Desbarats.. . . .	Morrisburg C. I.
McEachran, J. M..	4	Glencoe.. . . .	Glencoe H. S.
McEwen, G. G.....	3	Lakeport.. . . .	
Macgillivray, Flor- ence.. . . .	1	Kingston.. . . .	Kingston C. I.
Macgillivray, T. D.	4	Kingston.. . . .	Kingston C. I.
Macgregor, Annie K....	3	Almonte.. . . .	Almonte H. S.
Macgregor, Grace..	3	Almonte.. . . .	Almonte H. S.
McGuire, James....	5	Westport.. . . .	Brockville C. I.

NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
McInnes, W. H....	4	Vankleek Hill ...	Vankleek Hill H. S.
McIntosh, R. J....	2	Toronto.. . . .	Owen Sound C. I.
McIntyre, D. N....	3	Napanee.. . . .	Albert Coll., Belleville.
McIntyre, J. M....	4	Phoenix, Arizona..	Upper Canada College.
McKay, J. M.....	2	Kintore.. . . .	London C. I.
McKechnie, J. B...	3	Warton.. . . .	Warton H. S.
McKechnie, J. H .	4	Warton.. . . .	Warton H. S.
McKellar, Katie...	2	Martintown... ,	Cornwall H. S.
McKenzie, C. L....	1	Collingwood . . .	Collingwood C. I.
MacKenzie, H. Maud.. . . .	1	Gananoque.... .	Gananoque H. S.
McKeracher, D. A..	3	Dutton.. . . .	Dutton H. S.
McKeracher, Don- alda M.. . . .	2	Dutton.. . . .	Dutton H. S.
McKeracher, Flor- ence J... . . .	1	Dutton.. . . .	Dutton H. S.
Mackie, G. A.....	1	Kingston.. . . .	Ottawa H. S.
MacKinnon, Alex D.... . . .	1	Ottawa... . . . .	
MacKinnon, Arch. D.. . . .	2	Lake Ainslie, C.B.	Boston H. S.
Mackinnon, J. D..	5	Lake Ainslie, C.B.	Sydney Academy
Maclaren, C. H....	4	Ottawa.. . . .	Whitby C. I.
McLean, R. A.....	3	Smith's Falls.. .	Smith's Falls H. S.
McLellan, D.. . .	2	Renfrew.. . . .	Pembroke H. S.
McLennan, J. D..	4	Port Hope.. . . .	Port Hope H. S.
McLeod, K. C.....	4	Woodstock.. . .	Woodstock H. S.
McLeod, Lola.. .	2	Kingston.. . . .	Kingston C. I.
McLeod, N.. . . .	1	Dunvegan.. . . .	Alexandria H. S.
McMillan, G.. . .	1	Glenallan.. . . .	Stratford C. I.
McNab, A. J.....	4	Douglas.. . . .	Renfrew H. S.
McNab, G. G.. . .	4	Renfrew.. . . .	Renfrew H. S.
McNaughton, A... 1		North Lancaster..	Williamstown H. S.
Macphail, J. G....	3	Orwell, P. E. I..	Prince of Wales Coll.
Macpherson, H....	3	Grand Valley . . .	Orangeville H. S.
MacQuarrie, W. J.	5	West Bay, C.B., N.S	Private tuition.
Macqueen, M. A... 3		Orwell.... . . .	Prince of Wales Coll.
McSporran, J. A... 5		London.. . . .	Brantford C. I.
Newton, Meta.. . .	4	Deseronto.. . . .	Deseronto H. S.
Nichol, C. O.....	4	Hamilton.. . . .	Hamilton C. I.
Nicolle, F. R.....	3	Kingston.. . . .	Kingston C. I.
Nixon, T.. . . .	4	Smith's Falls.. . . .	
Norman, C. A.....	1	Eden.. . . .	Aylmer C. I.



NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
O'Brien, Lizzie.....	2	Alexandria.. . . .	Peterboro C. I.
O'Donnell, Flor- ence C. . . . .	1	Kingston.. . . .	Kingston C. I.
Ostrom, Ethel L....	2	Alexandria.. . . .	Alexandria H. S.
Patterson, W. R....	4	Kingston.. . . .	Kingston C. I.
Pearce, W. R.....	1	Wallacetown . . . .	Dutton H. S.
Penman, A. G.....	1	Ottawa.. . . .	Pictou Academy, N.S
Pentland, G. E....	4	Norwich.. . . .	Collingwood C. I.
Peppett, C. W.....	1	North Sydney,C.B.	Horton Acad., Wolf- ville. N.S.
Perney, F. E.....	5	Ottawa.. . . .	Hamilton C. I.
Petapiece, A. W... 3	3	Merrickville . . . .	Kemptville H. S.
Pettit, L. J.....	3	St. Thomas.. . . .	St. Thomas C. I.
Philp, J. H.....	3	Cushendall.. . . .	Brockville C. I.
Pickup, S. H.....	1	Cordova.. . . .	Millbrook H. S.
Pierce, Addie E... 2	2	Ellisville.. . . .	Athens H. S.
Platt, G. A.....	1	Kingston.. . . .	Kingston C. I.
Playfair, W. . . . .	2	Lavant.. . . .	Almonte H. S.
Pocock, C. E. A... 6	6	Hillhurst.. . . .	Coaticook Academy.
Polson, S. M.....	2	Kingston.. . . .	Kingston C. I.
Porter, W. C.....	4	Portsmouth.. . . .	Kingston C. I.
Potter, W. M.....	1	Edmonton, Alta...	Private tuition.
Pound, F. J.....	4	Kingston.. . . .	Kingston C. I.
Power, G. F. E.... 4	4	Kingston.. . . .	Kingston C. I.
Purdy, Mary C.... 2	2	Cataraqui.. . . .	Kingston C. I.
Quigley, J. P.....	4	Kingston.. . . .	Regiopolis Coll., King- ston.
Quincey, J. A.....	2	Wesley. Mich.. . .	Albert Coll., Belleville.
Race, W. B.....	2	Watford.. . . .	Mitchell H. S.
Ramsay, Wm... . .	4	Plattsville.. . . .	Woodstock C. I.
Ramsay, D. C.....	2	Plattsville.. . . .	Woodstock C. I.
Redden, Marion... 4	4	Kingston.. . . .	Kingston C. I.
Reid, E. J.....	4	Centreville.. . . .	Napanee C. I.
Reynolds, M. . . . .	3	Pakenham.. . . .	Brockville C. I.
Reilly, F. J.....	4	Sydenham.. . . .	Sydenham H. S.
Robb, J. J.....	3	Kingston.. . . .	Kingston C. I.
Robertson, G. D... 3	3	Dunnville.. . . .	Owen Sound C. I.
Robertson, J. B... 3	3	Toronto.. . . .	Toronto C. I.
Robinson, F. A.... 2	2	Kingston.. . . .	Mount Hermon, Mass.
Robinson, J. . . . .	4	Hamilton.. . . .	Hamilton C. I.
Roddick, A. M.... 1	1	Lyndhurst.. . . .	Athens H. S.
Ruttan, Emily.....	5	Kingston.. . . .	Kingston C. I.



NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
Sargent, F. R.....	2	Kingston.. . . .	Kingston C. I.
Sargent, W. G.....	3	Ballantrae.. . . .	Peterboro C. I.
Saunders, Elsie E..	3	Kingston.. . . .	Kingston C. I.
Savage, Anna L....	1	Kingston.. . . .	Kingston C. I.
Schrag, A. R.....	3	Brantford.. . . .	Brantford C. I.
Scott, A. K.....	6	Flat Rock, Mich..	Woodstock C. I.
Scott, Jean M. C..	1	Kingston.. . . .	Kingston C. I.
Scott, R. A.....	1	Bamberg.. . . .	Owen Sound C. I.
Sears, J.. . . .	2	Kingston.. . . .	Kingston C. I.
Sexsmith, M. E....	4	Melrose.. . . .	Victoria University.
Sexton, J. H.....	4	Kingston.. . . .	Brockville C. I.
Sharp, W. H.....	1	Port Dover.. . . .	Port Dover H. S.
Sharpe, Helena A..	1	Odessa.. . . .	Kingston C. I.
Shaw, Lily.. . . .	5	Kingston.. . . .	Kingston C. I.
Sheppard, F. W...	4	Berlin.. . . .	Berlin H. S.
Sherman, R. S....	1	Mission City, B.C.	Brantford C. I.
Simpson, B. L.....	3	Peterboro.. . . .	Peterboro C. I.
Slack, E. B.....	5	Toronto.. . . .	Williamstown H. S.
Smirle, Harriette..	4	Ottawa.. . . .	Ottawa C. I.
Smith, J. H.....	5	Milverton.. . . .	Mitchell H. S.
Smith, Marg't T. H.. . . .	1	Thorold.. . . .	St. Catharines C. I.
Smith, S. M.....	1	St h. Milwaukee, Wis.... . . .	Private tuition.
Snowdon, H. A....	4	Kingston.. . . .	Elora H. S.
Spankie, Amy I...	2	Wolfe Island.. . .	Kingston C. I.
Sparks, W.. . . .	3	Brampton.. . . .	Chatham C. I.
Spence, J. C.....	4	Ottawa.. . . .	Collingwood C. I.
Stewart, J. R.....	3	Waba.. . . .	Carleton H. S.
Stewart, Marg't J.	3	Renfrew.. . . .	Renfrew H. S.
Stewart, Martha G.	3	La Guerre, Que..	Morrisburg C. I.
Stewart, R.. . . .	3	Goderich.. . . .	
Story, G. E.....	1	Almonte.. . . .	Almonte H. S.
Sullivan, J. F.....	3	Ottawa.. . . .	Peterboro C. I.
Tanton, F.....	2	Komoka.. . . .	London C. I.
Taylor, Helen.. . .	5	Kingston.. . . .	Kingston C. I.
Taylor, Mabel A...	5	Hamilton.. . . .	Hamilton C. I.
Teskey, Kathleen..	3	Appleton.. . . .	Carleton Place H. S.
Thibaudeau, P. H.	2	Uxbridge.. . . .	Collingwood C. I.
Thompson, A. M...	4	Sarnia.. . . .	Brockville C. I.
Thompson, A. Y...	3	Strathroy.. . . .	Strathroy H. S.
Thompson, Edna G.	3	Kingston.. . . .	Kingston C. I.
Thompson, E. J...	4	Kingston.. . . .	Kingston C. I.
Thompson, Lottie..	3	Picton.. . . .	Picton H. S.

NAME.	Year of Atten- dance.	Summer Residence.	Where Educated.
Thornton, L. A....	4	Brooklyn.. . . .	Kingston C. I.
Tighe, F. J.....	3	Kingston.. . . .	Trinity Coll. School.
Timmerman, Mary E. . . . .	2	Odessa.. . . .	Kingston C. I.
Tompkins, Louise H. . . . .	3	Brockville.. . . .	Brockville C. I.
Tunnah, Mary, G..	1	Weston.. . . .	London C. I.
Twitcheil, E. G. C.	4	Kingston.. . . .	Kingston C. I.
Twohy, Henrietta..	4	Hamilton.. . . .	Hamilton C. I.
Vaux, M. Lillian..	4	Toronto.. . . .	Brockville C. I.
Voaden, J. . . . .	4	Talbotville.. . . .	St. Thomas C. I.
Wagar, C. M.....	1	Enterprise.. . . .	Napanee C. I.
Walkem, K. . . . .	4	Kingston.. . . .	Kingston C. I.
Walker, A. J.....	2	Alvinston.. . . .	St. Thomas C. I.
Walker, H. . . . .	4	Metcalfe.. . . .	Kemptville H. S.
Ward, H. . . . .	4	Toronto.. . . .	Berlin H. S.
Ward, W. . . . .	3	Kingston.. . . .	Berlin H. S.
Warren, L. A. H..	3	Balderson.. . . .	Perth C. I.
Watson, Alice.. .	6	Kingston.. . . .	Kingston C. I.
Watson, G. A.....	3	Williamstown.. .	Williamstown H. S.
Weaver, A. H. Maud.. . . .	1	Trenton.. . . .	Trenton H. S.
Weese, Meta. . . .	3	Wolfe Island.. .	Albert Coll., Belleville.
Wells, E. J.....	2	Boucks Hill . . .	Morrisburg C. I.
Whinton, W. E. H.	2	Kingston.. . . .	Kingston C. I.
White, H. . . . .	1	Avonton.. . . .	Stratford C. I.
White, H. P.....	2	Pembroke.. . . .	St. Andrew's Coll., Tor.
Whiting, C. C.....	5	Toledo.. . . .	Smith's Falls H. S.
Wilkinson, A. T..	1	Innisfail, N.W.T..	Brantford C. I.
Williams, L. J....	2	Watford.. . . .	Watford H. S.
Williams, Mary I..	2	St. Thomas.. . .	St. Thomas C. I.
Williams, W. H..	3	Picton.. . . .	Picton H. S.
Williamson, Flor..	1	Kingston.. . . .	Kingston C. I.
Wilson, Annie J....	3	Carp.. . . .	Ottawa C. I.
Wilson, Jessie A .	4	Gananoque.. . .	Gananoque H. S.
Wilson, R, A.....	4	Renfrew.. . . .	Renfrew H. S.
Wilson, William...	1	Toronto Junction.	Collingwood C. I.
Woods, I. H. . . .	3	Leesboro.. . . .	London C. I.
Woolsey, W. J....	2	Black Lake, P.Q..	Albert Coll., Belleville.
Wormwith, N. B..	1	Kingston.. . . .	Kingston C. I.
Wright, J. H.....	2	Lillooet, B. C . . .	Stanstead Wesleyan Col.
Wright, T. H.....	2	Michel, B.C.....	Albert College.
Young, E. T.....	5	Hamilton.. . . .	.....
Young, J. M.....	4	Renfrew.. . . .	Renfrew H. S.

# **POST-GRADUATE STUDENTS (In Arts).**

NAME.	ADDRESS.
Barr, Janet, B.A.....	Caledonia.
Black, H. H., M.A.....	Whitby.
Brown, J. W., B.A.....	Hanover.
Clothier, J. O., B.A.....	Vankleek Hill.
Crawford, W. F., B.A.....	Kingston.
Fife, J. A., B.A.....	Peterboro.
Herchmer, Ethel M, B.A.....	Kingston.
Ingall, E. E., B.A.....	Trenton.
Jamieson, Georgina, M.A.....	Napanee.
Kennedy, A., M.A.....	Agincourt.
Laird, A., B.A.....	Kingston.
Laird, Annie L., B.A.....	Kingston.
Longmore, H. B., B.A.....	Alexandria.
Matheson, J., M.A.....	Dutton.
Mills, Mabel V., B.A.....	Kingston.
Mudie, Ethel E., B.A.....	Kingston.
Macalister, Ursilla, M.A.....	Iroquois.
McDonald, James, M.A.....	Williamstown.
MacKinnon, A. G., B.A.....	Ottawa.
McNab, Lizzie M., B.A.....	Douglas.
Shibley, G. R., M.A.....	Kingston.
Solandt, D. M., B.A.....	Inverness, Que.
Wallace, J., M.A., B.D.....	Renfrew.
Wilson, W. L. A., B.A.....	Gananoque.

## **GENERAL STUDENTS.**

NAME.	ADDRESS.
Barry, Mary.....	Wolfe Island.
Clark, Lillian.....	Kingston.
Chrysler, G. H.....	Ottawa.
Connolly, N. W.....	Cataraqui.
Douglas, J. H.....	Levant.
Evans, A. R.....	Omeme.
Fenwick, Florence M.....	Kingston.
Gardiner, Florence V.....	Kingston.
Grant, Flora.....	Laggan.
Hague, Alice B.....	Kingston.
Harris, A. E.....	Ottawa.
Haycock, G. W. G.....	Cataraqui.
Haycock, J.....	Cataraqui.
Hutton, R. L.....	Muskoka.
Keifer, A.....	Ottawa.

NAME.	ADDRESS.
Kingsley, Loretta.....	Kingston.
Leggette, T.....	Kingston.
Morden, D. N.....	Kingston.
McEachren, G. D.....	Desbarats.
MacKinnon, Archie D.....	Lake Ainslie, N. S.
Ockley, M. Cornelia.....	Kingston.
Potter, D.....	Kingston.
Robinson, Winifred B.....	Kingston.
Smith, E. F.....	Brockville.
Smith, S. H.....	Fredericksburg.
Spence, H. D. L.....	Kingston.
Stewart, D. J.....	Waba.
Way, S. P.....	Watford.
Wright, A. Augusta.....	Stella.

### STUDENTS IN THEOLOGY.

NAME.	YEAR.	RESIDENCE.
Beckstedt, I. N., B.A.....	1	Chesterville.
Borley, H. D.....	1	Delaware.
Brown, T. C.....	1	Maitland.
Caldwell, J. A., B.A.....	1	Watson's Corners.
Crawford, W. F., B.A.....	2	Kingston.
Edmison, G. A., B.A.....	3	Rothsay.
Ferguson, J. Y.....	1	Admaston.
Fotheringham, R. H.....	2	Rcthsay.
Goodwill, T. W., B.A.....	3	Charlottetown, P. E. I.
Leckie, N. M.....	4	Hamilton.
Mahaffy, F. W.....	2	Courtright.
Millar, J. F.; B.A.....	3	Millarton.
Moore, W.....	2	Carleton Place.
Munro, G.....	1	Ridgetown.
McConnell, J. A., B.A.....	3	Elphin.
McDonald, J. A., B.A.....	P. G.	Pittsburgh.
MacIntyre, W. C.....	2	Newington.
MacKinnon, A. G., B.A.....	2	Ottawa.
McLaren, W. W., M.A.....	3	Renfrew.
McLennan, G. B., B.A.....	1	Walkerton.
McLeod, K. C.....	2	Golspie.
McMillian, A., B.A.....	3	Sonya.
MacQuarrie, W. J.....	1	West Bay, C.B., N.S.
McSporran, J. A.....	1	London.
Petrie, J. A.....	1	Belleville.
Pocock, C. E. A.....	3	Hillhurst, Que.
Purvis, W., B. A.....	3	Junetown.

NAME.	ADDRESS.
Solandt, D. M., B.A. ....	2 Inverness, Que.
Wallace, J., M.A., B.D. ....	P. G. Renfrew.
Watts, J. R., B.A. ....	1 Shelburne.

### PRACTICAL SCIENCE STUDENTS.

NAME.	RESIDENCE.
Anson-Cartwright, R. H. M. ....	Belleville.
Baker, C. W. ....	Kingston.
Baker, H. S. ....	Kingston.
Baker, J. C. ....	Stratford.
Baker, M. B. ....	Osnabruck Centre.
Bartlett, Jas. ....	Gananoque.
Bateman, G. C. ....	Kingston.
Belfour, H. M. ....	Bath.
Brown, T. ....	Hawkesbury.
Burrows, A. G., M.A. ....	Napanee.
Cairnes, D. D. ....	Stratford.
Carr-Harris, A. ....	Kingston.
Cartwright, C. T. ....	Portsmouth.
Cavers, T. W. ....	Carleton Place.
Chapman, C. T. ....	Kingston.
Chaplin, G. W. ....	St. Catharines.
Chappelle, J. W. S. ....	Baie Verte, N. B.
Clarke, C. F. ....	Brockville.
Collins, E. A. ....	Smithfield.
Corkill, E. T. ....	Sydenham.
Coy, W. F., M.D. ....	Kingston.
Craig, H. B. R. ....	Kingston.
Crothers, N. G. ....	Kingston.
Cumming, A. L. ....	Cornwall.
Cunningham, S. L. ....	Kingston.
Dennis, E. M. ....	Burgessville.
Devitt, G. H. ....	Easton's Corners.
Dillabough, J. V. ....	North Williamsburg.
Dobbs, W. S. ....	Kingston.
Doolittle, C. M. ....	Hamilton.
Drummond, L. E. ....	Kingston.
Dwyer, E. T. ....	Kingston.
Eyre, W. H. ....	Whitehurst.
Fairlie, M. F. ....	Kingston.
Fairlie, T. U. ....	Kingston.
Ferguson, M. ....	Kingston.
Finlayson, M. D. ....	Grand River, N. S.

NAME.	ADDRESS.
Garrow, R. M.....	Webbwood.
Gilbert, F.....	Montreal.
Gleeson, J. V.....	Kingston.
Gordanier, W. N.....	Napanee.
Graham, S. N., .....	Kingston.
Grant, J. R.....	Chesby.
Grover, G. A.....	Kingston.
Hazlett, J. W.....	Kingston.
Hunt, H. R.....	Bayside.
Jackson, H. G.....	Lindsay.
Jameson, W. B.....	Newlands, Eltham, Eng.
Knight, C. W.....	Kingston.
Law, C. E. L. H.....	Solina.
Longwell, A., M.A.....	Foxboro.
Malone, E.....	Kingston.
Milden, A. J.....	Cornwall.
Montgomery, O.....	Lanark.
McArthur, E.....	Copper Cliff.
McEwen, R. L.....	Carleton Place
McCallum, H. E., B.A.....	Kingston.
McDiarmid, S. S. R.....	Woodstock.
McIlquham, W. L.....	Lanark.
McKay, R. B.....	Cornwall.
McKenzie, G. C.....	Midland.
Mackie, F. H.....	Oshawa.
McLennan, J. D.....	Port Hope.
McLennan, K. R.....	Lindsay.
McNab, A. J.....	Douglas.
MacNeill, W. K.....	Embro.
McRae, A. D., B.A.....	Kingston.
Nichols, D. A.....	Camden East.
Noble, D. S.....	Clarkson.
Osborne, H. B.....	Kingston.
Paterson, R. K.....	Renfrew.
Pense, E. H.....	Kingston.
Purdy, G. M.....	Sydenham.
Redmond, A. V.....	Kingston.
Reid, F. D.....	Kingston.
Reid, J. A.....	Middleton, N. S.
Rogers, C. S. G., M.A.....	Niagara Falls.
Rose, S. L. E.....	Tamworth.
Ross, D. E.....	North Bedeque.
Scott, A., B.A.....	Glenmorris.
Scott, H. H.....	Perth.
Scott, O. N.....	Listowel.

NAME.	ADDRESS.
Shaver, P. A.....	Grantley.
Silver, L. P.....	Kingston.
Sloan, D.....	Perth.
Smyth, W. L.....	Pembroke.
Squire, R. L.....	Kingston.
Stanley, J. N., M.A.....	Port Colborne.
Stilwell, A. J.....	Bracebridge.
Strachan, B. O.....	Kingston.
Sutherland, E.....	Belleville.
Sutherland, T. F.....	New Carlisle, Que.
Swenerton, A. H.....	Halifax, N. S.
Tett, B.....	Newboro.
Thomas, L.....	Essex.
Tomlinson, Wm.....	New Denver, B. C.
Thompson, A. T.....	Kingston.
Way, Wm. C.....	Lindsay.
Webster, A. R.....	Lansdowne.
Wilgar, W. P.....	Cobourg.
Wilson, E. E. D.....	Harrietsville.
Wilson, R.....	Kingston.
Workman, C. W.....	Kingston.
Workman, J. K.....	Kingston.
Wright, A.....	Brockville.

### STUDENTS IN MEDICINE, 1901-1902.

NAME.	ADDRESS.	YEAR.
Amos, W. W.....	Kingston.....	4
Arthur, S. W.....	Inverary.....	3
Austin, C. J.....	Gouverneur, N. Y.....	3
Aylesworth, F. A.....	Bath.....	3
Ballantyne, W. H.....	Kingston.....	2
Bell, F. M.....	Kingston.....	3
Bennett, A. E. H.....	Peterborough.....	2
Bennett, H. J.....	Gananoque.....	2
Bleecker, G. H.....	Trenton.....	4
Boyce, H. A.....	Murray.....	1
Brandon, J. V.....	Ancaster.....	4
Branscombe, M. E.....	Picton.....	1
Brown, W. C.....	Big Springs.....	2
Brown, W. J.....	Kingston.....	1
Burrows, A. E.....	Montreal, Que.....	3
Carey, N.....	Kingston.....	4
Carruthers, J. S.....	New Glasgow, N. S.....	2
Caskey, J. C.....	Tweed.....	2



NAME.	ADDRESS.	YEAR.
Chadwick, C. C.	Kingston.	1
Chant, J.	Chantry.	1
Code, J. H.	Kingston.	1
Connell, J. V.	Spencerville.	4
Connolly, A. K.	Cataraqui.	2
Consitt, E. C.	Perth.	1
Corrigan, J. A.	Kingston.	2
Costello, T. J.	Calgary, N. W. T.	2
Crews, J. W.	Trenton.	4
Cryan, J. H.	Demorestville.	3
Curtin, T. V.	Brockville.	5
Dalton, G. F.	Kingston.	4
Day, H. E.	Kingston.	4
Day, L. J.	Kingston.	3
Dawson, J. K.	Wolfe Island.	3
Dear, C. B.	Bridgetown, Barbadoes.	2
DeLong, E. W.	Gananoque.	2
Dickey, J. S.	North Williamsburg.	3
Dix, O. J.	Kingston.	3
Donovan, F. J.	Gananoque.	1
Driscoll, A. C.	Trenton.	2
Dudley, W. H.	Pembroke.	1
Elliott, E. S.	Kingston.	3
Ellis, F. J.	Ellisville.	3
Eshoo, S. O.	Oroomiah, Persia.	4
Etherington, F.	Portsmouth.	4
Fahey, E. W.	Rochester, N. Y.	5
Falkner, A. D.	Williamstown.	2
Ferguson, A. A.	Glen Walter.	2
Ferguson, E. A.	Kingston.	3
Ferguson, J. Y.	Admaston.	1
Fifield, R. J.	Newboro.	3
Foley, T. B.	Charlottetown, P. E. I.	3
Gage, H. E.	Kingston.	4
Gallivan, J. V.	Kingston.	2
Geddes, W. J.	Kingston.	2
Gerow, E. P.	Picton.	1
Gibson, H. A.	Kingston.	3
Gibson, W.	Emerald.	2
Gillespie, J. J.	Morrisburg.	2
Girvin, A. W.	Stella.	1
Goodfellow, J. W.	Godfrey.	2
Gordon, G. D.	Kingston.	1
Graham, C. W.	Kingston.	1
Graham, D.	Steinbach, Man.	4
Graham, J. A.	Kingston.	3
Gray, D. W.	Kingston.	4

NAME.	ADDRESS.	YEAR.
Gray, T. J.	Kingston.	2
Grimshaw, M. E.	Wolfe Island.	1
Hanley, G. J.	Kingston.	5
Haskin, B.	Greenbush.	3
Herald, J. G.	Kingston.	1
Hill, T. J.	Conway.	4
Hogan, J. F.	Perth.	1
Hourigan, J. M.	Smith's Falls.	1
Houston, D. H.	Belleville.	3
Hughes, R. E.	Ottawa.	4
Hunter, W. R.	Smith's Falls.	4
Hoppin, L. W.	Kingston.	1
Jones, L. W.	Kingston.	4
Kane, J. L.	Gananoque.	3
Kearns, D. A.	Ottawa.	3
Kennedy, D. B.	Pembroke.	4
Keyes, S. J.	Kingston.	1
Kingsley, F.	Wolfe Island.	2
Knox, W. J.	Beachburg.	3
Labrosse, J. L. A.	St. Eugene.	2
Laidlaw, J. H.	Georgetown.	3
Lalonde, A. J.	Kingston.	2
Larocque, J.	Alfred.	2
Leach, G.	Feuella.	1
Leonard, A. H.	Kingston.	3
Lesses, M.	Kingston.	1
Locke, M.	Brinston's Corners.	1
Macgillivray, T. D.	Kingston.	1
Mackerras, R. H.	Kingston.	3
Mackinnon, D. L.	Lake Ainslie, N. S.	1
MacIachlan, A. J.	Glencoe.	1
MacMillan, A. E.	Sydenham.	3
Mason, W. R.	Ottawa.	4
Mellow, F. E.	Sillsville.	4
Merrill, J. W.	Ottawa.	4
Meyer, G. W.	London, Eng.	1
Mikaera, W. R.	New Zealand.	1
Moore, H. E.	Newburgh.	1
Moore, H. M.	Athens.	3
Moore, R. G.	Belleville.	4
Mowry, C. M.	Gravenhurst.	1
Moxley, C. R.	Kingston.	1
Munroe, A. T.	Moose Creek.	2
Murphy, W. S.	Portland.	3
Mylks, L. E.	Kingston.	3
McCambridge, J. E.	Kingston.	3
McCarthy, D. M.	Kingston.	3

	NAME.	ADDRESS.	YEAR.
	McCarthy, H. . . . .	Kingston. . . . .	3
	McCullough, F. C. . . . .	Gananoque. . . . .	2
X	McDonald, A. T. . . . .	Williamstown. . . . .	4
	McDonald, H. A. . . . .	Sunbury. . . . .	2
	McDonell, J. J. . . . .	St. Andrews, West. . . . .	3
	McDowall, J. L. . . . .	Kingston. . . . .	3
	McGonigle, M. . . . .	Newboro. . . . .	2
	McGreer, C. G. . . . .	Napanee. . . . .	3
	McIntosh, G. E. . . . .	Kingston. . . . .	3
	McKay, J. A. . . . .	Langden, N. Dak. . . . .	1
	McKechnie, W. . . . .	Elmside, Que. . . . .	4
	McKinley, W. W. . . . .	Seeley's Bay. . . . .	3
	McLaren, T. C. . . . .	Osceola. . . . .	4
	McLaren, T. O. . . . .	Lancaster. . . . .	4
	McMillan, A. D. . . . .	Finch. . . . .	1
	Nash, P. I. . . . .	Kingston. . . . .	4
	Nickle, W. C. . . . .	Madoc. . . . .	1
	O'Reilly, T. J. . . . .	Placentia, Newfoundland. . . . .	4
	Orser, T. H. . . . .	Glenvale. . . . .	4
	Pannell, W. L. . . . .	Kingston. . . . .	3
	Patterson, W. J. . . . .	Peterboro. . . . .	4
	Pennock, W. I. . . . .	Brockville. . . . .	1
	Porter, J. B. . . . .	Consecon. . . . .	3
	Presseau, J. W. . . . .	Alfred. . . . .	2
	Pritchard, J. A. . . . .	Brockville. . . . .	3
	Randall, G. . . . .	Seeley's Bay. . . . .	1
X	Reekie, J. S. . . . .	Syney, N. S. Wales. . . . .	4
	Reid, G. M. . . . .	Kingston. . . . .	3
	Reid, R. M. . . . .	Renfrew. . . . .	4
	Reid, V. . . . .	Kingston. . . . .	2
	Robb, W. M. . . . .	Lunenburg. . . . .	1
	Robertson, J. J. . . . .	Montreal, Que. . . . .	3
	Robinson, E. J. . . . .	North Williamsburg. . . . .	2
	Rutledge, S. H. . . . .	Thomasburg. . . . .	2
	Saunders, T. F. . . . .	Rhinebeck, N. Y. . . . .	1
	Scott, R. H. . . . .	Pembroke. . . . .	3
	Sheffield, E. . . . .	Peterboro. . . . .	3
	Shirreff, W. T. . . . .	Fitzroy Harbor. . . . .	3
	Singleton, A. H. . . . .	Newboro. . . . .	2
	Smith, A. L. . . . .	Kingston. . . . .	4
	Smith, B. A. . . . .	Hartington. . . . .	1
	Smith, W. A. . . . .	Kingston. . . . .	1
	Sparks, J. F. . . . .	Kingston. . . . .	1
	Spooner, A. C. . . . .	Latimer. . . . .	1
X	Spotswood, W. A. J. . . . .	Alexandria. . . . .	4
	Sproule, E. W. . . . .	Harrowsmith. . . . .	2
	Staley, A. A. . . . .	Wolfe Island. . . . .	3

NAME.	ADDRESS.	YEAR.
Stewart, A. J.. . . . .	Kingston.... .	3
Stewart, J. A.. . . . .	Renfrew.... .	2
Stratton, C. M.. . . . .	Napanee.... .	4
St. Remy, C. de.. . . .	Kingston.... .	4
Tandy, H.. . . . .	Kingston.... .	2
Taughar, W. J.. . . . .	Beachburg.... .	1
Tennent, R. W.. . . . .	Belleville.... .	1
Thompson, E. J.. . . . .	Kingston.... .	5
Twitchell, E. G.. . . . .	Kingston.... .	1
Tyner, S. E.. . . . .	Kingston.... .	2
VanNess, C. S.. . . . .	Wolfe Island.... .	2
Wagar, C. M.. . . . .	Enterprise.... .	1
Ward, G. H.. . . . .	Napanee.... .	3
Warren, J. W.. . . . .	Harper.... .	1
Weatherhead, G. F.. . . .	Brockville.... .	4
Wellwood, J. A.. . . . .	Fordyce.... .	3
Williams, E. J. F.. . . . .	Brockville.... .	1
Williamson, H. J.. . . . .	Kingston.... .	1
Windell, H. C.. . . . .	Lotus.... .	4
Wing, L. J.. . . . .	Buffalo, N. Y.... .	1
Woodruff, G. A.. . . . .	Sydenham.... .	5
Workman, W.. . . . .	Kingston.... .	3
Young, J. M.. . . . .	Renfrew.... .	1
Zwicker, F. G.. . . . .	Halifax, N. S.... .	4

**ARTS HONOUR LISTS FROM 1877 TO 1901.**

- Alcombreck, R. W., Greek II, '96; Latin II, '97.  
 Allen, Maggie D., Botany I, '93; Geology I, '93; Zoology II, '93;  
 Histology II, '93.  
 Allen, T. G., Natural Science I, '88.  
 Anderson, F. C., Animal Biology II, '00; Botany I, '00.  
 Anglin, F. R., German II, '94; French II, '95; Italian II, '94.  
 Anglin, R. W., Mathematics I, '97.  
 Anthony, J., Political Science III, '98; Philosophy I, '00.  
 Arthur, C. C., Chemistry I, '91; Botany I, '91; Zoology I, '91.  
 Asselstine, F., Botany I, '97.  
 Attwood, A. E., Animal Biology II, '95; Botany I, '95.  
 Bajus, Carrie, French I, '01; German II, '01; English III, '01.  
 Baker, H. M., Botany I, '91; Zoology I, '91; Geology I, '91.  
 Baker, M. B., Chemistry II, '00; Geology I, '00.  
 Baker, W. C., Chemistry I, '95; Mineralogy I, '95; Physics II, '97.  
 Baker, W. R., Botany II, '96.  
 Barclay, W. B. C., Latin II, '88; English Literature and History  
 II, '88.  
 Barker, J., English III, '99; French II, '01.  
 Barnard, A. T., Latin I, '99; English III, '99.  
 Barr, Janet, Italian II, '94; French III, '00; German III, '00;  
 English III, '00.  
 Bates, C. J. L., Philosophy I, '01.  
 Beall, A. W., Latin I, '88; Moderns I, '88.  
 Beaton, A. H., History I, '94; Political Science II, '94.  
 Beaton, K., English III, '97; Latin II, '96.  
 Belfour, P. F., Chemistry II, '99; Mineralogy II, '99.  
 Bell, J. M., Biology I, '99; Chemistry I, '99.  
 Bellamy, Mabel, English III, '00.  
 Bennett, C. V., Latin II, '94; Greek II, '94.  
 Bennett, W. C., Greek III, '97; Latin II, '95.  
 Bennett, W. H., Latin III, '00; Greek III, '01.  
 Berlanquet, H. S., Latin II, '96; Greek II, '96.  
 Bernstein, J. S., History I, '97; Political Science I, '98.  
 Best, Isabella M., English II, '00; French II, '01; German I, '01.  
 Billings, T. H., Latin I, '01.  
 Binnie, J., Political Economy I, '88; Philosophy II, '88.  
 Black, H. H., Latin I, '98; Greek I, '99.  
 Boddy, Martha, Systematic Mineralogy (only), '93; Zoology II,  
 '93; Histology I, '93; Geology I, '94.  
 Bower, T. T., Animal Biology II, '98.  
 Bowermann, J. T., Botany I, '89; Zoology I, '89; Geology I, '89.  
 Boyd, Annie A., Botany I, '98; Biology I, '98.  
 Boyd, Mabel E., Botany II, '98; Biology III, '98.

- Boyle J., Mathematics II, '91.  
 Breck, R. W., Mineralogy I, '95; Chemistry I, '95.  
 Briden, William M., Classics I, '79.  
 Brisco, N. A., History I, '98; Political Science I, '00.  
 Brown, A. B., English III, '97; French II, '98; German III, '98;  
     Italian II, '98.  
 Brown, J. C., English I, '96; History I, '96.  
 Brown, T. C., Political Science I, '01.  
 Bryan, H. W., Latin I, '94; Greek I, '94.  
 Bryant, J. F., Latin III, '01; Greek III, '01.  
 Burgess, H. H., History I, '96.  
 Burrows, A. G., Chemistry I, '00; Mineralogy I, '00; Geology I,  
     '01.  
 Burton, R., English I, '96; Philosophy I, '98.  
 Caldwell, J. A., History II, '01.  
 Calhoun, A., Latin I, '01.  
 Cameron, C. J., Greek I, '82; Latin I, '82.  
 Cameron, C. K. O., Histology I, '93.  
 Cameron, J., English I, '97; German II, '97; French II, '96;  
     Italian I, '97.  
 Campbell, Annie G., Moderns I, '91.  
 Campbell, A. L., English III, '97.  
 Campbell, C. D., Latin II, '95; Greek II, '96.  
 Campbell, P. McG., Mathematics II, '92.  
 Canon, J. D., Political Science I, '98.  
 Carmichael, H., Philosophy I, '97.  
 Carmichael, N. R., Mathematics I, '90; Greek I, '90; Latin I,  
     '90.  
 Chisholm, W. I., Botany I, '94; Animal Biology I, '94.  
 Chisholm, W. J., Zoology I, '93.  
 Clark, G. W., Latin I, '99; Greek I, '99; English III, '99.  
 Clark, J. K., Chemistry II, '95.  
 Clark, J. W., Geology II, '95.  
 Clark, R. J., Latin II, '95; Greek I, '95; English I, '95; Political  
     Science II, '95.  
 Clark, W. T., Latin II, '95; Greek II, '95.  
 Claxton, J., Latin II, '88.  
 Claxton, J. A., Moderns I, '88.  
 Cloney, S. Louise, Italian I, '96; German II, '97; French I, '97.  
 Cloney, S. E., English I, '96.  
 Clyde, W., Greek I, '86.  
 Collinson, J., Chemistry I, '98.  
 Collier, W. H., Mathematics II, '98.  
 Conn J. R., English II, '96; Political Science I, '96.  
 Connell, J. C., Mathematics I, '85.  
 Connell, J., Latin II, '92; Greek II, '92.

- Connolly, H. A., Moderns I, '95; English I, '95.  
Cooke, J., Latin II, '84; Greek II, '84.  
Corkill, E. J., Chemistry II, '89; Botany II, '89.  
Cowley, R. H., Geology I, '92.  
Crawford, W. F., Philosophy II, '00.  
Cryan, G., French III, '97; Italian II, '97; German II, '98; English II, '98.  
Croskery, R. A., Latin II, '95.  
Cummings, J. C., Physics I, '98.  
Cunningham, D., Zoology I, '91.  
Curle, W., Mathematics I, '89; Political Economy I, '89.  
Currie, P. W., Latin II, '96.  
Dalton, G. F., History I, '97; Political Science III, '98.  
Davis, B. N., Mathematics I, '81; Chemistry I, '81.  
Davis, J. S., Political Science I, '97.  
Davis, W. H., Philosophy I, '93.  
Day, A. E., Moderns I, '95; English I, '96.  
Day, J., English III, '01.  
Denyes, J. M., Latin II, '95; Moderns II, '95.  
Detlor, W. T., History II, '97.  
Dickson, C. W., Animal Biology I, '00; Chemistry I, '00.  
Dolan, G., Latin II, '99; English III, '99; Greek II, '00; History I, '00.  
Dolan, J. H., Greek I, '97; Latin II, '98.  
Downing, J., Latin II, '92; Moderns II, '92.  
Downing, J. J., Latin II, '91.  
Dowsley, W. C., English II, '98; Latin I, '98.  
Drennan, Ethel, English III, '00.  
Drummond, D. R., Greek I, '89; Latin I, '89.  
Drummond, W. J., Greek II, '85; Latin II, '85.  
Duff, J., Greek I, '99; English I, '99.  
Dunkley, A. W., Latin I, '98; Greek I, '99.  
Dunlop, J. G., Moderns I, '86; English Literature and History II, '87.  
Dupuis, J. M., Chemistry I, '79.  
Durie, C. L., English II, '99; Political Science I, '99.  
Dyde, G. E., English II, '93; Greek I, '89; Latin II, '89.  
Dyde, S. W., Classics I, '81; Philosophy I, '84.  
Easton, W. H., Philosophy I, '93.  
Edmison, G. A., Political Science II, '00.  
Edwards, C. B., English II, '99.  
Elliott E., English II, '86; History I, '86; Moderns II, '86.  
Ewing, W. C., Animal Biology I, '95; Botany I, '95.  
Farquharson, R. A., Moderns III, '97.  
Farrell, T. H., Mathematics I, '89.  
Fee, W. M., Philosophy I, '99.  
Fenwick, A. M., Botany I, '90; Zoology I, '90; Geology I, '90.



- Ferguson, R., English Literature and History I, '82.  
Findlay, J., Mathematics I, '87; Philosophy I, '90.  
Finley, W. A., Greek I, '88; Latin I, '88.  
Firth, W. P., Chemistry I, '01.  
Fitzgerald, Eliza S., Greek I, '84; Latin I, '84.  
Fitzpatrick, A., English II, '95.  
Flath, Emma S., English III, '01.  
Ford, A. B., Chemistry II, '93; Zoology I, '93; Histology I, '93.  
Fowler, H. C., English Literature and History, '81.  
Fox, C. B., Chemistry I, '94; Histology I, '94; Zoology II, '93.  
Folger, Marion, Moderns I, '86.  
Fraser, Annie E., English I, '95.  
Fraser, J. R., Philosophy I, '93.  
Fraser, T., English I, '97; Latin III, '98.  
Furlong, T. H., Botany I, '97; Animal Biology I, '97.  
Gallup, E. C., English II, '92.  
Gandier, A., English Literature and History I, '83; Philosophy I, '83.  
Gandier, J. C., Latin II, '01; Greek II, '01.  
Gardiner, S. H., Chemistry I, '86; Natural Science I, '86.  
Gavin, F. P., Botany I, '96; Animal Biology II, '96.  
Geddes, R. W., Latin II, '96; Greek II, '96.  
Gibson, J. C., Mathematics I, '92.  
Gilfillan, J., Botany II, '96.  
Girvin, H. G., Mineralogy II, '01.  
Givan, A., Mathematics I, '83.  
Givens, D. A., Mathematics I, '78.  
Gober, Mai, English I, '98; History I, '99.  
Goodfellow, J., English III, '97.  
Gould, W. H., Mathematics I, '00.  
Graham, P. E., French I, '98; German I, '98; Italian II, '98; English III, '98.  
Grange, W. A., Political Science II, '98.  
Grant, W. L., Latin I, '94; Greek I, '94.  
Gray, S. H., Latin II, '94; Greek II, '94.  
Grenfell, Caroline, Italian II, '97; German III, '99; French III, '99; English III, '99.  
Grenfell, M. Elizabeth, Italian I, '98; French II, '99; German II, '99; English III, '99.  
Griffin, E. S., Latin II, '89; Moderns II, '89.  
Griffith, Agnes J., English I, '95; Moderns I, '96.  
Griffith, Edna B., Mathematics II, '96.  
Guess, G. A., Zoology I, '93; Histology I, '93.  
Guess, H. A., Chemistry I, '95; Mineralogy I, '95.  
Haig, A., Chemistry II, '88.  
Hales, J., Chemistry I, '88; Philosophy II, '89.  
Hall, J. R., Political Science II, '96; Philosophy I, '98.

- Hamilton, C. F., English Literature I, '90; History I, '90.  
 Harper, A. M., History I, '00; Political Science II, '00.  
 Hartwell, G. E., Greek II, '88.  
 Harvey, K., Italian II, '94; French II, '95.  
 Hawley, A. T., Latin I, '99; Greek I, '99.  
 Hay, A. G., Political Economy I, '88; Philosophy II, '89.  
 Hay, J., Philosophy I, '82; Political Economy I, '84.  
 Haydon, A., English I, '93; History I, '93; Political Science I, '93.  
 Hazlett, J. W., Chemistry II, '01.  
 Heap, F., Greek I, '90; Latin I, '90.  
 Henderson, G. F., English Literature I, '84.  
 Henderson, M., Political Science III, '00; English III, '01.  
 Henstridge, Eliz., English I, '96; History I, '97; French II, '00;  
 German III, '00.  
 Herbison, R., Greek II, '94; Philosophy I, '96.  
 Herbison, W. J., English II, '95; Political Science II, '95.  
 Herchmer, Ethel M., English I, '01.  
 Hermiston, G. M., History II, '95.  
 Hiscock, R. C., Petrography and Economic Geology II, '96;  
 Chemistry I, '96; Mineralogy II, '96.  
 Hoppin, L., Chemistry II, '01.  
 Hord, A. H., English I, '01.  
 Horsey, H. E., Mathematics I, '86.  
 Hugo, F., English I, '93; Political Science I, '93; History I, '94.  
 Hume, J. P., Mathematics I, '81; Chemistry I, '81.  
 Hunter, J. McF., English Literature and History I, '86.  
 Hunter, R. F., History I, '96; English I, '97.  
 Hunter, W. R., Animal Biology I, '00.  
 Hutcheson, R. J., Latin I, '92; Greek I, '92.  
 Instant, F. P., English II, '96.  
 Ireland, F. A. W., Greek I, '91; Latin I, '91; English Literature  
 I, '91.  
 Irvine, R., Latin II, '81.  
 Irvine, William H., Mathematics I, '77; Physics I, '77.  
 Irving, W. G., Political Science II, '94.  
 Jameson, Georgina, French I, '99; German I, '99; English I, '99.  
 Johns, C. P., French I, '96; German II, '96; Italian II, '96; Eng-  
 lish II, '96.  
 Johnson, D. B., English III, '01; History II, '01.  
 Johnston, J. K., Animal Biology I, '97; Botany I, '97.  
 Johnston, J. R., English Literature and History II, '82.  
 Johnston, J. W., Botany I, '94; Animal Biology II, '94.  
 Kayler, W. B., Histology II, '93.  
 Keillor, James, English III, '00; History I, '00.  
 Kellock, J. McC., English Literature I, '92; History I, '92.  
 Kellock, W. McC., English II, '96; Political Science II, '96.  
 Kemp, W., French I, '98; German I, '98; Italian I, '98; English  
 I, '99.

- Kennedy, A., Mathematics I, '01.  
Kennedy, T., Mathematics I, '99.  
Kerfoot, H. W., Latin II, '00.  
Kilborn, O. L., Chemistry I, '87.  
King, F., Mathematics I, '89.  
King, W. W., Latin I, '95; Greek I, '95.  
Kirkland, W. S., Botany I, '98; Biology I, '98.  
Laird, Annie L., English II, '00; French II, '01; German II, '01.  
Laird, D. H., Latin I, '98.  
Laird, R., Latin I, '92; Greek I, '92; Philosophy I, '95.  
Lang, G. R., Philosophy II, '96.  
Langford, T. E., Botany I, '98; Biology II, '98.  
Lavell, C. F., History I, '93; Political Science I, '94.  
Lees, R., Botany I, '90; Zoology I, '90; Geology I, '90.  
Left, R. M., English Literature II, '89; History I, '89; Moderns II, '89.  
Lewis, L. L., French II, '99; German II, '99; Italian I, '99; English II, '00.  
Leibner, E., Animal Biology III, '00; Botany I, '00.  
Lindsay, C. V., History I, '99; Political Science I, '00.  
Lindsay, E., History II, '96.  
Linton, A. R., Classics I, '80; Philosophy I, '81.  
Lockhart, T. J., Zoology I, '91.  
Lochead, W. M., History I, '97; Political Science I, '98.  
Logie, W. A., Greek I, '87; Latin I, '87.  
Loucks, J. E., English III, '01; History II, '01.  
Lowe, W. D., Latin I, '01.  
Malcolm, G., History II, '92.  
Malone, Edith, French I, '99; German I, '99; Italian I, '99; English I, '00.  
Marquis, T. G., English Literature I, '91.  
Marshall, J., Philosophy I, '87; English Literature I, '91.  
Marshall, J. W., Latin III, '98.  
Marshall, W. F., Political Science I, '98; English I, '98.  
Marty, Aletta E., Moderns I, '93; English II, '94.  
Marty, Sarah E., Moderns I, '96; English I, '97.  
Matheson, J., Mathematics I, '01.  
Matthews, S. W., Mathematics I, '97.  
Meade, R., Botany I, '96; Animal Biology I, '96.  
Meiklejohn, A. J., English II, '98.  
Menish, Janet I., Moderns II, '95; English II, '95.  
Menzies, R. D., Chemistry II, '95; Animal Biology I, '96.  
Millar, J., Pol. Science I, '89; Philosophy I, '91; English I, '93.  
Millar, J. M., English I, '93.  
Millar, J. L., English II, '95; Political Science II, '96.  
Miller, Eva M., French III, '01; German III, '01.  
Miller, J., English Literature and History II, '86; Moderns II, '86.

- Miller, J. D., English II, '96; Political Science II, '96.  
 Millions, Edna, French III, '99; German III, '99.  
 Mills, J. H., Greek I, '89; Latin I, '89.  
 Mills, Rhoda, Latin III, '98.  
 Minnes, K., Mathematics I, '89.  
 Misener, Geneva, Latin I, '98; Greek I, '99.  
 Mitchell, G. A., Philosophy II, '99.  
 Mitchell, G. W., Greek II, '85; Latin II, '85.  
 Mitchell, S. A., Mathematics I, '94; Physics I, '95.  
 Moffat, W., Qualitative Analysis (only) I, '93; Zoology I, '93;  
     Histology I, '93; Botany I, '94; Animal Biology I, '94.  
 Moore, J. R., Botany I, '96; Animal Biology I, '96.  
 Morden, G. W., Chemistry II, '88.  
 Morgan, J., Animal Biology III, '00; Botany II, '00.  
 Morrison, A. S., History I, '97; English III, '98.  
 Morton, Alice, Mathematics I, '99.  
 Mowat, A., English III, '00.  
 Mowat, J. McD., English II, '94; Political Science I, '95.  
 Mudie, Ethel, English III, '99; History I, '99.  
 Munro, H. B., English III, '98; History I, '98.  
 Munro, Maud E., French II, '96; Italian I, '96; German II, '99;  
     English III, '99.  
 Munro, W. B., History I, '95; Political Science I, '96.  
 Murphy, Isabella, English I, '01; History I, '01.  
 Murray, D. C., Animal Biology I, '00; Botany I, '00.  
 Murray, Minnie, Philosophy I, '94.  
 Macalister, Ursilla, Latin I, '00; English I, '00; French II, '01;  
     German II, '01.  
 McCaig, J., English II, '96.  
 McCallum, A. B., Philosophy I, '80.  
 McCallum, J. A., English II, '00.  
 McClement, W. T., Chemistry I, '87; Natural Science I, '88.  
 McColl, A. E., Mathematics II, '85.  
 McColl, J. A., English I, '94; Political Science I, '95.  
 McCormack, M., French I, '01; German II, '01.  
 McCreary, R. N., Animal Biology I, '95; Botany I, '95.  
 Macdonald, Geo., Classics I, '78; Philosophy I, '78; English Literature and History I, '78.  
 McDonald, J., Latin I, '92; Greek I, '92; English I, '01.  
 McDonald, J. F., Latin I, '99; Greek I, '00; English I, '99; Political Science I, '01.  
 McDonald, N., English II, '00.  
 McDonald, Norval, French III, '99; German II, '99.  
 Macdonnell, G. F., Latin I, '93; Greek I, '93.  
 Macdonnell, J. S., Latin I, '99; Greek I, '99.  
 Macdougall, C. A., Latin II, '95; Greek II, '95.  
 McDougall, J. B., Latin II, '96; Greek II, '96.

- McDowall, E., History II, '96.  
 McEwen, J. S., English II, '97.  
 McGaughey, G. A., History I, '99; Political Science I, '00.  
 McGibbon, A., Latin I, '97.  
 McGillivray, Alice, Chemistry I, '84.  
 McGuire, J., Botany I, '01; Animal Biology I, '01.  
 McInnes, C. R., Physics I, '95; Mathematics I, '96.  
 McIntosh, J. W., English I, '94; French I, '94; Italian I, '93; German I, '93.  
 McIntosh, W. D., Latin I, '92.  
 McKay, D. A., Animal Biology II, '00; Botany II, '00.  
 McKay, M., History I, '79.  
 McKay, R., Latin I, '81.  
 McKechnie, J. H., Mathematics II, '01.  
 Mackenzie, Arch. A., Classics, I, '77; Philosophy I, '77; English Literature and History I, '77.  
 Mackenzie M., Philosophy I, '88.  
 McKinnon, M. A., Philosophy I, '00.  
 McLaren, W. W., English I, '98; Political Science I, '99.  
 McLennan, Elizabeth, English II, '99.  
 McLennan, F. M., Mathematics I, '78.  
 McLeod, A., Political Economy I, '82.  
 McLeod, P. A., Political Economy I, '87; Philosophy I, '89.  
 McManus, Emily, English I, '93; Political Science II, '94.  
 McMillan, H. H., Mathematics II, '79.  
 McNab, R. C., English II, '96; Political Science II, '96.  
 McNaughton, Elizabeth, Latin I, '99; Greek I, '00; English I, '01.  
 McPherson, H. G., French II, '96; Italian II, '96; German III, '97; English III, '97.  
 McPherson, Mary C., French III, '00; German III, '00; English II, '00.  
 McPherson, N., Philosophy I, '91.  
 McPherson, W. A., Mathematics II, '91.  
 McPherson, W. E., English II, '96.  
 McRae, A. D., Animal Biology II, '00; Botany II, '00.  
 McRae, Donella, French II, '00; German III, '00; Italian II, '00; English III, '00.  
 McRae, F. A., Political Science II, '96; English II, '97.  
 McRae, T. W. R., English Literature and History I, '86.  
 McTavish, D., Classics I, '79; Philosophy I, '81.  
 McVicar, J., Mineralogy II, '93; Animal Biology II, '94; Chemistry II, '96.  
 Neish, A. C., Chemistry II, '98; Biology II, '98.  
 Nesbit, D. A., English III, '00; History III, '01.  
 Neville, K. P. R., Latin I, '97; Greek I, '97.  
 Newman, G. E., English II, '94; History II, '94.  
 Nichol, Jennie, Moderns II, '93; History II, '93.

- Nichol, W., Chemistry I, '83; Natural Science I, '85; English Literature and History I, '86.
- Nimmo, H. M., Latin II, '98; Greek I, '98.
- Norris, I. T., Mathematics II, '94.
- Norris, J., Mathematics I, '93.
- O'Reilly, J. R., Political Economy I, '81.
- O'Shea, J., English II, '92.
- Parker, F. R., Greek I, '87; Latin I, '87.
- Patterson, A. O., Latin I, '96; Greek I, '97.
- Patterson, W. J., Mathematics I, '88; Political Economy I, '89; Philosophy I, '95.
- Peacock, E. R., English I, '94; Political Science I, '94.
- Peck, W. W., English I, '93; History I, '91; Political Science I, '92.
- Pergan, P., History I, '92.
- Phalen, R. M., Political Economy II, '89.
- Pitts, F., Philosophy II, '97.
- Playfair, A. W., Greek I, '95; Latin I, '96.
- Porter, S. E., Animal Biology II, '96.
- Polson, Susan C., English I, '95; History I, '96.
- Pope, F. J., Chemistry I, '90; Zoology I, '91.
- Powell, G. L., English III, '97.
- Power, J. F., Botany I, '96; Animal Biology I, '96.
- Power, J. J., History II, '00.
- Reid, Etta A., Mathematics I, '92.
- Reid, G. M., French III, '99; English III, '98; German III, '99; Italian III, '99.
- Reid, M. R., Botany I, '97; Animal Biology I, '97.
- Robertson, A. M., Mathematics I, '96; Moderns I, '96.
- Robertson, M. S., Moderns I, '80.
- Rogers, C. S. G., Latin I, '00; Greek I, '01.
- Rogers, J. E., English I, '95.
- Rogers, W. C., Mineralogy I, '98.
- Rose, G. W., Philosophy II, '98.
- Ross, A. H. D., Mathematics II, '88; Chemistry I, '93; Zoology II, '93; Histology I, '93.
- Ross, A. E., Latin II, '93; Greek I, '93; Sanscrit, I, '93.
- Row, R. K., Animal Biology II, '97; Botany I, '97.
- Russell, W. J., Latin III, '00; Greek III, '00.
- Ryckman, F. F., English III, '98; History II, '98.
- Ryerson, S. E., Mathematics I, '95.
- Saunders, W. J., Botany I, '99; Biology I, '99.
- Scott, C. A., Chemistry I, '85; Natural Science II, '85.
- Sexton, J. H., Botany I, '98; Biology I, '98.
- Shannon, L. W., Chemistry I, '80.
- Sharp, J., Political Economy I, '88; Philosophy II, '88; English I, '92.



- Shibley, G. R., Latin I, '01; Greek I, '01.  
Shibley, H. T., Political Economy I, '80; History I, '82.  
Shibley, Jennie, English III, '00.  
Shibley, L., History I, '90.  
Shorey, E. C., Chemistry I, '86; Natural Science I, '86.  
Shortell, D. H., English I, '98; History I, '98.  
Shortt, A., Philosophy I, '83.  
Shortt, J. S., Latin II, '94; Greek I, '94; Political Science I, '97.  
Shortt, E. J., Latin I, '96.  
Sills, W. R., Mathematics I, '95.  
Sinclair, E., English III, '97.  
Sinclair, J., Political Economy I, '89.  
Sinclair, J. A., Philosophy I, '90; Political Science I, '92.  
Skelton, O., Latin I, '99; English I, '99; Greek I, '00.  
Smellie, I. F., History II, '90.  
Smith, A. L., Greek I, '81; Latin I, '82; English Literature and History I, '83.  
Smith, J. C., Latin I, '98; Greek II, '98.  
Smith, J. H., Geology I, '92.  
Smith, F. C., Animal Biology III, '97; Botany I, '97.  
Smith, V. B., English II, '95; Italian II, '96; French III, '97; German III, '97.  
Smythe, G. H., Latin III, '97; Greek II, '97.  
Snell, J., Mathematics I, '90.  
Snyder, H. Adell, English I, '94; History I, '97.  
Solandt, D. M., Political Science I, '99.  
Spooner, A. C., Moderns II, '96; English III, '96.  
Stanley, J. N., Mathematics I, '01.  
Staples, L. E., Geology I, '95.  
Stewart, E. J., Greek II, '97.  
Stewart, J., Philosophy I, '94.  
Stewart, J. A., Mathematics I, '92.  
Stewart, W., Mathematics I, '79.  
Story, Selina G., English I, '00; French I, '01; German I, '01; Italian I, '01.  
Stratton, C. M., Chemistry II, '98; Botany II, '99.  
Stubbs, S. J., English II, '99.  
Tandy, H., French I, '00; German II, '00; Italian I, '00; English III, '00.  
Tandy, W. R., English I, '99; Philosophy I, '00.  
Taylor, J. A., Botany II, '97; Animal Biology II, '97.  
Thompson, A. M., Latin I, '01.  
Thompson, Margaret J., French II, '93; Italian I, '93; German II, '94; English II, '94.  
Thompson, P. M., Botany I, '98; Biology I, '98.  
Thompson, T. J., Philosophy I, '92; English I, '95.  
Turnbull, J. H., Philosophy I, '96.



- Tyner, W. G., Chemistry II, '98; Biology III, '98.  
Volume, D. A., Political Science I, '97; History II, '98.  
Walker, T. L., Chemistry I, '89; Botany II, '89.  
Walks, R. H., English III, '00.  
Wallace, J., Latin I, '97; Greek I, '98.  
Warren, F. R. W., Latin II, '00; Greek I, '01.  
Watson, E. C., Latin I, '95; Greek I, '95.  
White, J. W., Chemistry II, '88.  
Williamson, A. R. B., Chemistry I, '96; Animal Biology I, '96.  
Williamson, E. J., Italian I, '99; French I, '99; German I, '99;  
English I, '00.  
Wilson, C. L. M., History II, '91; Moderns II, '91.  
Wilson, H. L., Greek I, '88; Latin I, '88.  
Wilson, R. A., English II, '01.  
Windell, H. C., Latin I, '95; Greek I, '96.  
Wood, I., Chemistry I, '91; Zoology I, '91.  
Wright, J. J., Political Economy I, '87.  
Young, J., English Literature and History I, '81.  
Young, W., Animal Biology II, '95; Botany I, '95.  
Youngson, Mary A., Botany III, 98.

**Explanations of the Numbers Attached to the Names in the following List.**

PREVIOUS TO 1892.

1. Gold Medallist in Classics.
2. Silver Medallist in Classics.
3. Gold Medallist in Mathematics.
4. Gold Medallist in Philosophy.
5. Gold Medallist in History and English Literature.
6. Gold Medallist in Political Economy.
7. Silver Medallist in Political Economy.
8. Gold Medallist in Chemistry.
9. Silver Medallist in Chemistry.
10. Silver Medallist in Modern Languages.
11. Silver Medallist in Natural Science.

1892 AND AFTERWARDS.

- |     |                                |
|-----|--------------------------------|
| 1.  | University Medallist in Latin. |
| 2.  | “ “ Greek.                     |
| 3.  | “ “ Moderns.                   |
| 4.  | “ “ English.                   |
| 5.  | “ “ History.                   |
| 6.  | “ “ Philosophy.                |
| 7.  | “ “ Political Science.         |
| 8.  | “ “ Mathematics.               |
| 9.  | “ “ Chemistry.                 |
| 10. | “ “ Physics.                   |
| 11. | “ “ General Biology.           |
| 20. | “ “ Geology.                   |
| 28. | “ “ Mineralogy.                |

- 
12. Prince of Wales' Prize.
  13. Governor General's Prize.
  14. Gowan Prize; Botany.
  15. Macpherson Prize.
  16. Thornburn Prize.
  17. Lewis Prize.
  18. Latin Composition Prize.
  19. Greek Composition Prize.
  22. Maclellan Prize.
  23. Carmichael Prize.
  24. Chancellor's Prize.
  25. Gowan Prize; Political Science.
  26. Hague Prize.
  27. English Verse Prize.

**NOTE.**—The University Medal is now the highest award in honours. Candidates must take all the honour papers in the work of the courses selected and no medal is awarded to any candidate who fails to obtain three-fourths of the whole number of marks.

## LIST OF GRADUATES.

*Graduates are requested to intimate to the Registrar, change of residence or any omission in the list.*

Names marked with an asterisk are names of clergymen.

Name.	Date of Graduation.	Address.
Abbott, George A., M.D.....	1895	Fort George, Iowa.
Abbott, Rodney H., M.D.....	1879	Kingston.
Abbott, Samuel A., M.D.....	1868	(Deceased).
Aberdeen, His Excellency the Earl of, LL.D.....	1894	
Aberdeen, Her Excellency the Countess of, LL.D.....	1897	
*Acheson, Stuart, B.A.....	1887	Wiaraton.
Adams, George T. C., M.D....	1892	Melbourne, Victoria.
Adams, Joseph, M.D.....	1892	Michigan.
Adamson, Herbert A., M.D.....	1892	Richmond, Utah, U.S.
Agnew, Andrew, B.A.....	1865	Chicago.
Agnew, John, B.A., 1859; M.A., 1872; M.D.....	1865	(Deceased).
Alcombrack, R. W., B.A....	1895	New York.
Alexander, Francis R., M.D.....	1881	(Deceased.)
Alexander, James A., M.D.....	1869	(Deceased.)
Allan, Laura E., B.A.....	1899	Marlbank.
Allen, Alfred G., M.D.....	1887	Deadwood, S. Dakota.
Allen, James R., M.D.....	1894	Olean, N. Y.
Allen Maggie D. (Hutcheon), M. A.....	1895	Ottawa.
14, 8 Allen, Thos. G., B.A., 1888; M.D.....	1889	Chicago.
Allen, Emily, B.A.....	1898	Kingston.
Allison, D. M., M.D....	1900	Adolphustown.
Allison, Mary L., B.A....	1902	Adolphustown.
Alway, Enoch, M.D.....	1869	Bartonville.
Ames, James A., M.D.....	1895	Rush, N. Y
Ami, Henry M., M.A., D.Sc... ..	1892	Ottawa.
Amos, W. W., M.D.....	1902	Kingston.
Amys, C. H., M.D.....	1899	Lakefield.
Anderson, F. C., B.A.....	1900	Napanee.
Anderson, James J., M.D....	1887	Smith's Falls.
Anderson, William J., M.D.....	1894	Easton's Corners.

Name.	Date of Graduation.	Address.
Anderson, William J., M.D.....	1861	Smith's Falls.
Anderson, M. W., M.D.....	1888	Lumsden, N. W. T.
Andrews, Francis, D.D.....	1901	(Deceased.)
Anglin, Francis R., B.A. ....	1895	Kingston.
Anglin, Harriet, B.A... ..	1901	Kingston.
Anglin, Robert W., M.A....	1897	St. Thomas.
Anglin, James V., B.A., 1883; M.D.	1887	Montreal.
Anglin, Robert S., M.D.....	1882	Omaha, Neb.
Anglin, Sarah E., (Sparling) B.A.	1892	Montreal.
Anglin, William G., M.D., (Pro- fessor Queen's University ....	1883	Kingston.
6, *Anthony, James, M.A. ....	1898	Waterdown.
Armour, James, B.A.....	1886	Perth.
Armstrong, Albert, M.D....	1867	Arnprior.
Armstrong, Alfred, M.D....	1886	(Deceased.)
Armstrong, C. C., M.D.....	1898	Deseronto.
Arthur, Colin C., M.A.....	1891	Cobourg.
Arthur, S. W., B.A.....	1900	Inverary.
Ash, A. F., M.D.....	1901	Kingston.
*Ashton, John J., B.A.....	1886	Newcastle.
Asselstine, David P., B.A.....	1892	Kingston.
Asselstine, Henry A., B.A.....	1876	
Asselstine, Robert W., B.A.....	1894	Kingston.
14Attwood, Albert E., M.A.....	1896	Ottawa.
Austin, Griffin H., M.D....	1893	Cairo, N. Y.
*Awde, James B.A.....	1879	Niagara Falls.
Aylesworth, Archibald K., M.D..	1863	(Deceased.)
Aylesworth F. L., B.A....	1902	Kingston.
Bailie, Thomas H., M.D....	1892	Hamilton.
Bain, Angus U., B.A.....	1888	C.P.R. offices, Toronto.
12Bain, Hugh U., B.A., M.D..	1871	Prince Albert, N. W. T.
Bain, Hon. Mr. Justice J. F., B.A.	1867	Winnipeg.
*Bain, William, B.A., 1845; M.A., 1847; D.D.....	1872	(Deceased.)
Bain, William G., B.A.....	1886	(Deceased.)
Bain, William R., B.A.....	1863	
Bajus, Carrie, B.A....	1901	Kingston.
Baker, Hat. M., (Thompson) M.A.	1892	(Deceased.)
Baker, H. S., B.Sc.....	1902	Kingston.
Baker, Herbert W., B.A.....	1891	Portage la Prairie.
Baker, J. Y., B.A., 1896; M.D....	1899	Dalhousie Mills.
20Baker, M. B., B.A., 1900; B.Sc..	1902	Stratford.
Baker, Thomas C., M.D....	1888	Chatham.
Baker, William C., M.A.....	1895	Kingston.
Baker, James G., B.A.....	1897	Summerstown.

Name.	Date of Graduation.	Address.
Balfe, T. H., M.D.....	1882	Hamilton.
Ballagh, James H., B.A.....	1878	Chicago.
Bamforth, Richard, B.A.....	1897	Rednersville.
Bannister, Percy G., M.D.....	1897	Edinburgh, Scotland.
Bannister, J. A., B.A.....	1898	Kingston.
Barber, Albert E., M.D.....	1892	South Bend, Ind.
Barber, Vincent, M.D.....	1897	Toronto.
Barclav, William B. C., B.A.....	1888	Arnprior.
Barker, Alexander N., M.D.....	1893	(Deceased.)
Barnard, A. T., B.A.....	1899	Hamilton.
Barnet, T. J., M.D.....	1900	(Deceased.)
Barr, Janet, B.A.....	1900	Hamilton.
Bateman, Francis J., B.A.....	1888	Christiana.
6Bates, C. J. L., M.A.....	1901	Montreal, P. Q.
*Baxter, John C., D.D.....	1878	Kirkaldy, Scotland.
*Bayne, James, D.D.....	1865	(Deceased.)
10Beall, Arthur W., B.A.....	1892	Kingston.
5Beaton, Alexander H., B.A.....	1884	Orillia.
Beaton, Kate F., B.A.....	1887	Orillia.
Beattie, John A., B.A.....	1891	Barnett.
Beattie, William, M.D.....	1866	Warton.
Beatty, Elizabeth R., M.D.....	1884	Brantford.
Bechard, David, M.D.....	1887	Tecumseh.
Beckett, James, M.D.....	1863	(Deceased.)
Beckstedt, I. N., B.A.....	1899	Chesterville.
Beeman, Truman A., M.D.....	1887	Mallorytown.
Beeman, Thomas W., M.D.....	1878	Perth.
Beeman, William C., M.D.....	1886	Ottawa.
Begg, Colin L., B.A.....	1895	Orillia.
Begg, John W., M.D.....	1888	Cartago, Costo Rico.
Begg, William P., M.A., D.D.....	1896	Consecon.
Belch, John A., M.D.....	1889	Syracuse, N. Y.
Belfour, P. F., B.A.....	1899	Bath.
Bell, Alexander, M.D.....	1865	Lakefield.
Bell, Andrew, B.A.....	1853	Almonte.
*Bell, George, B.A., 1845; LL.D..	1872	(Deceased.)
Bell, George, B.A.....	1878	Toronto.
Bell, James M., M.D.....	1857	(Deceased.)
9Bell, J. M., M.A.....	1899	Ottawa.
Bell, John, B.A., 1862; M.A., 1865; M.D.....	1866	(Deceased.)
*Bell, John, B.A.....	1890	(Deceased.)
Bell, John H., M.D.....	1890	Kingston.
Bell, Josiah, B.A., 1864; M.A....	1877	Toronto.
Bell, Robt., LL.D., Assist. Direc.		

Name.	Date of Graduation.	Address.
Geological Survey of Can.)..	1883	Ottawa.
*Bell, William, B.A.....	1855	(Deceased.)
Bellamy, A. W., M.D.....	1897	Irondquoit, N. Y.
Bellamy, Mabel, B.A.....	1901	Prescott.
*Bellis, George, D.D.....	1880	(Deceased.)
Belton, W. J., M.D.....	1892	(Deceased.)
*Bennett, Orr, B.A.....	1886	Almonte.
Bennett, Charles V., B.A.....	1894	Barrie.
Bennett, Henry, M.D.....	1878	(Deceased.)
Bennett, J. W. C., B.A.....	1897	Bracondale.
Bennett, W. H., B.A.....	1901	Berthier-en-hant, Que.
Benson, J. R., B.A., 1853; M.D..	1858	(Deceased.)
*Bergne, Samuel B., D.D.....	1865	London, Eng.
Berlanquet, Hugh S., B.A.....	1886	Admaston.
Bermingham, Mary E., (Macarow) M.D.....	1882	Kingston.
Bermingham, F. H., M.D.....	1892	New York, N. Y.
Bernard, Gerald, M.D.....	1871	Newcastle-on-Tyne, Eng.
Bernstein, J. S., M.A.....	1898	New York City.
Berry, George H., M.D.....	1895	Westport.
Bertram, Thomas A., M.D.....	1885	Dundas.
Best, Isabel, M., B.A.....	1901	Peterboro.
Bethune, Alexander, M.D.....	1858	Seaforth.
Bethune, Harry F., M.D.....	1869	Clanbrassie.
Bethune, William, B.A.....	1864	Genesee, Ill.
Betts, Alfred H., M.D.....	1875	(Deceased.)
Betts, John H., M.D.....	1881	(Deceased.)
Beveridge, Alice B. (Porteous) B.A	1892	New York.
Bice, Mark, M.D.....	1869	Mount Brydges.
Biggar, George W., M.D.....	1862	Grimsby.
Bigham, Hugh, M.D.....	1864	(Deceased.)
Bigham, James, M.D.....	1868	Peterboro.
Bigham, John, M.D.....	1865	(Deceased.)
Billings, T. H., M.A.....	1902	Lyn, Ont.
Bilton, William J., M.D.....	1892	(Deceased.)
*Binnie, James B.A., 1889; M.A., 1890; B.D.....	1892	Macdonald's Corners.
Bird, Francis W., M.D.....	1859	(Deceased.)
Bird, Nelson J., M.D.....	1860	San Francisco, Cal.
Birkett, F. W., M.D.....	1898	Ottawa.
Bishop, C. P., B.A.....	1900	Athens.
Bissonnette, Julian D., B.A., 1880; M.D.....	1892	Stirling.
*Black, Armstrong D.D.....	1900	Toronto.
Black, Benjamin F., M.D.....	1893	

Name.	Date of Graduation.	Address.
Black, H. H., B.A., 1898; M.A....	1899	Kingston.
*Black, John, D.D.....	1876	(Deceased.)
Black, John A., B.A.,.....	1891	Massie.
Black, William A., M.D....	1862	(Deceased.)
Blakeley, Robert, M.D.....	1861	(Deceased.)
Blaylock, Ella, M.D. (Atherton)..	1887	Nashua, New Hamp.
Bleasdel, Charles E., M.D.....	1868	(Deceased.)
Bleecker, G. H., M.D.....	1902	Trenton.
Bloor, W. R., M.A.....	1902	Ingersoll.
Boddy, Martha, B.A.....	1894	Owen Sound.
Bonner, John, B.A., 1845 M.A...	1847	(Deceased.)
Booth, Donald B., M.D.....	1868	(Deceased.)
Bogart, I. G., M.D.....	1901	Berwick.
Boucher, Joseph A., M.D. ...	1894	Watertown, Mass.
Bouchier, H. P., B.A... ..	1853	(Deceased.)
Bourinot, John G., LL.D....	1887	Ottawa.
Bourns, Thomas C., M.D....	1892	Whitney.
Bourns, William H., M.D.....	1892	Adison.
Bovey, Henry T., M.A., LL.D., (Prof., McGill University) ..	1893	Montreal.
Bowen, George H., M.D.....	1887	Gananoque.
Bowen, Robert, M.D....	1865	H. M. Service.
Bowerman, John T., M.A.....	1891	Ottawa.
Bowers, Samuel S., M.D.....	1857	Fond du Lac, Wis.
Bowie, H. A., M.D.....	1901	Kingston.
Boyd, Edward, LL.D.,....	1863	Cincinnati, U. S.
*Boyd, John D., B.A.....	1889	Kingston.
Boyd, Annie A, B.A., 1897; M.A.	1898	Kingston.
Boyd, M. E., B.A.....	1898	Kingston.
Boyle, Arthur A., M.D.....	1859	Toronto.
Boyle, Joseph, B.A., 1891; M.D...	1896	Casselmann.
*Boyle, W. H. W., B.A.....	1884	Colorado Springs, Col.
Bradley, Gordon F., B.A... ..	1890	Bradley, Man.
Brady, James, M.D:....	1891	Rochester, N. Y.
Brandon, J. S., B.A.,....	1899	Ancaster.
Brandon, W. M., B.A.....	1899	Ancaster.
Braniān, P. K., M.D.....	1862	(Deceased.)
Bray, John L., M.D.....	1863	Chatham, O.
Breuls, I. D., B.A.....	1900	Port Hope.
12Briden, William, B.A....	1880	Ingersoll.
Bridge, B. B., M.D... ..	1900	Albert City, Iowa.
Bridgeland, Samuel, M.D.....	1870	Bracebridge.
Brien, James M.D.....	1872	Essex Centre.
25Brisco, N. A., B.A., 1898; M.A.	1900	Napanee.
Britton, Edward H., B.A.,....	1884	Kingston.



Name.	Date of Graduation.	Address.
Britton, Mildred G., B.A.....	1899	Kingston.
28Brock, Reginald, W., M.A.....	1895	Geol. Dept., Ottawa.
Brokenshire, W., B.A. ....	1902	Toronto.
Brough, Thomas, A., B.A....	1893	Owen Sound.
Brown, Albert H., B.A.....	1896	Ottawa.
Brown, Amelia, B.A....	1898	Kingston.
Brown, Frederick M., B.A....	1890	Kingston.
Brown, George E. J., LL.B....	1894	Creemore.
Brown, Jonathan, M.D.....	1893	New Lothrop, Mich.
*Brown, James A., B.A.....	1883	Agincourt.
5, 22Brown, J. C., B.A., 1894; M.A	1896	Williamstown.
Brown, J. G., Williston, B.A.....	1890	Charlottetown, P. E. I.
Brown, J. W., B.A.....	1901	Hanover.
Brown, Marshall J., M.D....	1856	Kingston.
Brown, Sara A., M.D.....	1890	Fingal.
Brown, William G., B.A.....	1881	Toronto.
Brown, W. T., B.A.....	1901	Colebrooke.
Bruce, Frederick, M.D....	1886	Mount Morris, Mich.
*Bryan, Andrew C., B.D....	1895	Westport.
Bryan, George J., B.A.....	1888	Regina, Assa.
Bryan, Hugh W., B.A., 1893; M.A.	1894	Renfrew.
Bryant, J. F., B.A.....	1901	Prince Albert, N. W. T.
Bryce, Walter, B.A.....	1896	Toronto.
Brymner, Douglas, LL.D....	1892	Ottawa.
Bryson, Mary G., B.A.....	1899	Ottawa.
Buchanan, H. M., M.D.....	1889	St. Lawrence, N. Y.
*Buchanan, John H., B.A. (Medical Missionary) ....	1885	Indore, India.
Buckley, Patrick D., LL.B....	1863	(Deceased.)
Bullis, William H., M.D....	1884	Rochester, N. Y.
Burdett, Harry E., M.D....	1886	St. Paul, Minn.
Burger, C. H., M.D.....	1898	Kingston, Jamaica.
Burgess, H. H., B.A.....	1899	Owen Sound.
Burgess, Jas. E., B.A., 1868; M.A.	1876	London.
Burns, Clement B., B.A.....	1890	Halifax.
*Burns, James C., D.D.....	1884	(Deceased.)
*Burns, Samuel S., B.A.....	1894	Stirling.
15Burns, William, B.A.....	1886	Vancouver, B. C.
20,28Burrows,A. G., M.A.'00 B.Sc.	1902	Napanee.
Burrows, John G., M.D....	1891	Marlbank.
4, 6Burton, Robert, M. A....	1898	(Deceased.)
Burton, S., M.D....	1900	Kingston.
Butler, Tobias J., M.D....	1895	34 Thorp St., Chicago.
Byers, Robert P., B.A....	1893	Avoca, Que.
Byrnes, J. D., B.A., 1898; B.D....	1901	Cumberland.

Name.	Date of Graduation.	Address.
*Caie, George J., B.A.....	1861	Forfar, Scotland.
Caldwell, Daisy, B.A....	1901	Sydenham.
Caldwell, J. A., B.A.....	1902	Watson's Corners.
Caldwell, William C., B.A....	1866	Lanark.
2Calhoun, A., M.A.....	1902	Ottawa.
Callfas, W. F., M.D.....	1898	St. Louis, Mo.
Calvin, D. D., B.A....	1902	Kingston.
Calvin, Marion, B.A.....	1901	Kingston.
Camelon, Thomas P., M.D.....	1890	Chicago.
Cameron, Alexander, D., M.D....	1882	(Deceased.)
Cameron, C. Alice, B.A....	1888	Boston, Mass.
*Cameron, Charles I., B.A., 1861; M.A.....	1868	(Deceased.)
1*Cameron, Charles J., B.A., 1886; M.A.....	1887	Boston, Mass.
Cameron, Dan, M.D.....	1887	(Deceased.)
*Cameron, Hugh, B.A.....	1876	Morrisburg.
Cameron, James C., B.A., 1888; LL.B.....	1896	Cornwall.
Cameron, John, B.A.....	1864	Toronto.
*Cameron, James Y., M.A....	1865	(Deceased.)
Cameron, Wm. A., B.A., 1887; M.D.	1890	Kemptville.
Cameron, Jessie, B.A.....	1897	Almonte.
Campbell, Albert L., M.D....	1889	Mount Amherst, Ohio.
*Campbell, Alexander, B.A....	1862	Broadview, Assa.
*Campbell, Alexander J., D.D....	1887	Geelong, Aus.
Campbell, Annie G., (Macgillivray) B.A.....	1891	Kingston.
Campbell, Colin D., B.A....	1896	Dunvegan.
Campbell, Donald, B.A.....	1850	(Deceased.)
Campbell, George, M.D....	1859	H. M. Navy.
*Campbell, George D., B.A....	1895	Grand Mere, Que.
Campbell, J. A., B.A....	1900	Keene.
Campbell, James W., M.D., Profes- sor, Queen's University....	1891	Kingston.
*Campbell, John, B.A., 1847; M.A.	1850	(Deceased.)
Campbell, John H., M.D....	1856	(Deceased.)
Campbell, Joseph, M.D.....	1867	Ontario, N. Y.
Campbell, Joseph S., M.D....	1890	Ontario, N. Y.
Campbell, Lizzie V., B.A.....	1899	Smith's Falls.
*Campbell, Neil, B.A....	1883	Oso Station.
Campbell, Peter McG., B.A., 1892; M.D.....	1896	Cardston, N. W. T.
*Campbell, Robert, B.A., 1856; M. A., 1858; D.D.....	1887	Montreal.

Name.	Date of Graduation.	Address.
*Campbell, Robert, B.A. 1867; M. A., 1870; D.Sc....	1884	Renfrew.
*Campbell, J. Fraser, D.D....	1897	Rutlam, Cen. India.
Carmichael, Andrew, M.D....	1861	Sundridge.
6Carmichael, Harvey, M.A....	1897	Spencerville.
*Carmichael, James, D.D....	1892	King, Strange.
Carmichael, James F., B.A....	1887	Toronto.
2Carmichael, Norman R., M.A....	1890	Kingston.
Carmichael, R. F., B.A., 1900; M.D.	1900	(Deceased.)
Carr-Harris, F. F., M.D....	1901	Kingston.
Cartwright, Alexander D., B.A....	1885	Toronto.
Cartwright, Richard C., M.D....	1884	Rochester, N. Y.
Carscallen, Allen B., M.D....	1875	Enterprise.
Carscallen, W. E., M.D....	1897	Tamworth.
Carswell, Jennie, B.A....	1896	Renfrew.
Case, George H., M.D....	1876	(Deceased.)
Casselman, Joseph, M.D....	1886	Salt Lake City, Utah, U.S.
Cattanach, James, B.A....	1889	Baltimore, Md.
*Cattanach, John C., B.A., '68; M.A.	1881	(Deceased.)
*Caven, William, D.D., (Principal Knox College)....	1875	Toronto.
Chaffey, Ellsworth, M.D....	1871	Santa Monica, Cal.
Chamberlain, T. F., M.D....	1862	Toronto, Insp. Prisons.
Chamberlain, Watson P., M.D....	1888	Toronto.
Chambers, Alice, B.A....	1888	Los Angeles, Cal.
Chambers, Daniel, M.D....	1855	(Deceased.)
Chambers, Mary M. (Lavell), B.A.	1891	Smith's Falls.
*Chambers, Robt., B.A., 1866; D.D	1897	Bardezag, Ismidt in Tur.
Chambers, R., jr., M.A....	1902	Bardezag, Turkey in Asia
Chambers, William, B.A....	1883	Los Angeles, Cal.
Channonhouse, John, M.D....	1863	Eganville.
Channonhouse, R. C., M.D....	1889	Richmond.
Channonhouse, Thomas, M.D....	1860	(Deceased.)
Chapman, A. B., M.D....	1899	Reston, Man.
Chapman, Edward J., LL.D....	1867	(Deceased.)
*Childerhose, Stephen, B.A....	1884	Parry Sound, Ont.
Chisholm, James, B.A., LL.B....	1892	Hamilton.
*Chisholm, John, B.A....	1878	Kemptville.
Chisholm, Harvey F., M.D....	1857	(Deceased.)
11Chisholm, William I., M.A....	1894	Kincardine.
Chown, Albert P., M.D....	1890	Kingston.
Chown, Henry H., M.D., (Profes- sor, University of Manitoba...	1880	Winnipeg.
Chown, George Y., B.A., (Regis- trar, Queen's University)...	1884	Kingston.

Name.	Date of Graduation.	Address.
Chown, Stanley T., B.A.. . . . .	1889	Renfrew.
Chrysler, Francis H., B.A.. . . . .	1866	Ottawa.
Clancey, Charles C., M.D.. . . . .	1883	Port Huron, Mich.
Clark, John K., B.A.. . . . .	1895	Franklin, Man.
Clark, Richard J., M.A.. . . . .	1895	Wellington, B. C.
Clark, Wm., M.A., D.C.L., D.D.. . . . .	1902	Toronto.
Clark, W. C. D., M.D.. . . . .	1885	Toronto.
Clark, William T., B.A.. . . . .	1895	
Clarke, G.W., B.A., 1898; M.A.. . . . .	1899	Kingston.
Clarke, James, M.D.. . . . .	1868	Bay City, Mich.
Clarke, John, M.D.. . . . .	1872	(Deceased.)
Clarke, Joseph A., M.A.. . . . .	1882	(Deceased.)
Clarke, John G., M.D.. . . . .	1880	Meaford.
Clarke, J. T. A., B.A.. . . . .	1899	Lander, Man.
Clarke, William, M.D.. . . . .	1879	Ireland.
*Clarke, William C., B.A.. . . . .	1855	(Deceased.)
Clark, L. J., B.A.. . . . .	1898	Toronto.
Claxton, George, B.A.. . . . .	1876	Gladstone, Man.
*Claxton, John A., B.A., 1878; B.D.	1886	Queensboro.
Claxton, William, M.D.. . . . .	1874	Verona.
Cleary, J. R. S., B.A.. . . . .	1900	Montreal, P. Q.
Cleaver, J. C. C., M.A.. . . . .	1879	Montserrat, Trinidad.
Cleaver, William F., M.D.. . . . .	1879	Wigan, England.
Clerihew, Ernest M., M.D.. . . . .	1890	New York.
Clinton, George, M.D.. . . . .	1878	Belleville.
Cloney, S. Louise, M.A.. . . . .	1897	St. Catharines.
Cloutier, Felix, M.D.. . . . .	1889	Crysler.
Cluness, Wm. R., B.A., 1855; M.D.	1859	Sacramento, Cal.
Clyde, William, B.A., 1885; M.A..	1887	Petrolia.
Coad, Edith, B.A.. . . . .	1902	Brockville.
Cochrane, James B., B.A., . . . . .	1891	Kingston.
Cogan, Jeremiah R., M.D.. . . . .	1861	(Deceased.)
Coleman, William F., M.D.. . . . .	1863	163 State St., Chicago, Ill.
Collier, W. H., B.A.. . . . .	1898	Napanee.
Collins, Cornelius, M.D.. . . . .	1886	(Deceased.)
9Collinson, J. C., M.A.. . . . .	1898	Kingston.
Collinson, G. W., M.D.. . . . .	1898	Brinston's Corners.
Comer, Alexander T., M.D.. . . . .	1864	New York.
Conboy, Daniel, B.A.. . . . .	1888	
Condell, Wm. N., M.D.. . . . .	1898	Spencerville.
7Conn, James R., M.A.. . . . .	1896	Blakeney.
3Connell, James C., B.A., 1884; M. A., 1885; M.D., (Professor, Queen's University).... .	1888	Kingston.
Connell, Jessie C., (Binnie) B.A..	1892	Macdonald's Corners.

Name.	Date of Graduation.	Address.
Connell, J. V., M.D....	1902	Spencerville.
Connell, W. T., M.D., (Professor, Queen's University)...	1894	Kingston.
Conner, F. E., M.D....	1899	Macdonald, Man.
Connerty, J. Moore, M.D....	1886	Smith's Falls.
Connolly, E. W., M.D....	1900	Bishop's Mills.
3Connolly, Henry A., M.A.....	1885	Cataraqui.
*Cook, John, LL.D....	1880	(Deceased.)
Cooke, John A., B.A....	1884	Dunnville.
Cooke, William H., M.D....	1888	Minneapolis, Min.
Coon, Darius A., M.D....	1890	Elgin.
Cooper, E. G., M.D....	1899	Calabogie.
Copeland, George T., B.A....	1889	Cornwall.
Corbett, George H., M.D....	1856	(Deceased.)
Corbett, Henry T., M.D....	1868	(Deceased.)
Corkill, Edward J., B.A....	1886	Sarnia.
Corliss, Margaret A., M.D....	1885	Australia.
*Cormack, James, B.A....	1872	Maxville, Ont.
Cormack, John H., M.D....	1893	Ottawa.
Cornell, Albert P., M.D....	1882	(Deceased.)
Cornell, Stanley S., M.D....	1886	Athens.
*Cornett, William, H., B.A....	1887	Albion, N. Y.
Corrigan, D. J., M.D....	1898	West Webster, N. Y.
Corry, Robert, M.D....	1861	(Deceased.)
*Cosgrove, Thomas A., B.A....	1887	St. Mary's.
Coughlin, Richard, M.D....	1881	Hastings.
Countryman, John E., M.D....	1893	Drayton, N. Dak.
*Coussirat, Daniel, B.D., D.D., (Professor, McGill Univers'y)	1893	Montreal.
Coutlee, Hillier Noel, M.D....	1882	Sharbot Lake.
Cowan, S. G., B.A....	1901	Peterboro.
14Cowley, Rt. H., B.A., 1889; M.A.	1893	Ottawa.
Coy, William F., M.D....	1886	Kingston.
Craft, Robert A., M.D....	1895	Plainfield.
Craig, Hugh A., M.D....	1878	(Deceased.)
Craig, James J., B.A....	1874	Mount Forest.
Craig, J. D., B.A., 1897; B.Sc....	1900	Ottawa.
*Craig, Robt. J., B.A., 1871; M.A.	1874	Kingston.
Craig, William, B.A....	1858	(Deceased.)
Craine, Agnes D., M.D....	1888	Smith's Falls.
Cram, W. H., B.A., 1895; B.D....	1900	Bath.
Cranston, James G., M.D....	1860	Arnprior.
Cranston, James J., M.D....	1895	Arnprior.
Crawford, Joseph M.D....	1857	(Deceased.)
12Crawford, Robert, B.A....	1869	Kingston.
Crawford, W. F., B.A....	1900	Brockville.

Name.	Date of Graduation.	Address.
Creeggan, Jno. G., B.A., 1878; M.D.	1886	Delta.
Crews, J. W., M.D....	1902	Trenton.
Croft, L. V., B.A....	1899	Middleville.
Croskery, Robert A., B.A....	1896	Morrisburg.
Croskery, E. A., M.D....	1897	Trelona, Wyo.
Crozier, J. A., B.A....	1897	Grand Valley.
Cryan, Georgina (Fraser), B.A...	1898	Uxbridge.
Cryan, John, M.D....	1883	Demorestville.
*Cumberland, Jas., B.A., 1877; M.A.	1880	Stella.
Cumberland, Thomas, M.D....	1884	(Deceased.)
12Cumberland, Judge Thos. D., B.A	1875	Brandon.
Cummings, J. G., B.A....	1898	Peterborough.
Cunningham, Arthur B., B.A...	1891	Kingston.
Cunningham, Dav., B.A., 1887; M.D.	1890	(Deceased.)
Cunningham, Henry C., M.D...	1885	Carman, Man.
Curle, William, B.A., 1889; M.A..	1890	Toronto.
*Curran, Wm. B., B.A., 1859; M.A.	1870	Hamilton.
*Currie, Arch. B.A., 1858; M.A...	1861	Sonya.
*Currie, John, D.D., (Professor, Theological Hall)....	1885	Halifax.
Currie, P. W., B.Sc....	1901	Ottawa.
Curry, James W., B.A....	1878	Toronto.
Curtin, T. V., M.D....	1901	Brockville.
Dalton, G. F., B.A., 1898; M.D...	1902	Kingston.
*Daly, Charles H., B.A....	1890	Lyn.
Daly, Wilberforce, B.A....	1880	Peterboro.
Dame, Alexander A., M.D...	1836	Toronto.
Dandeno, J. B., B.A....	1895	
*D'Argent, William E., B.A....	1884	Galipolis, Ohio.
Darragh Robert, J., M.D....	1886	Chippewa.
David, Alfred, M.D....	1873	Atlantic Mines, Mich.
David, William C., M.D....	1889	West Bay City, Mich.
Davies, Ransom A., M.D....	1876	Easton's Corners.
Davis, Bidwell N., B.A....	1881	Toronto.
Davis, John J., M.D....	1894	New York, N. Y.
Davis, Lewis T., M.D....	1883	Nanaimo, B. C.
Davis, Robert H., M.D....	1858	York, Grand River.
Davis, Sydney N., M.D....	1891	York.
Davis, William H., M.A....	1893	Cornwall.
Davis, J. S., B.A....	1898	Ottawa.
Davis, N. A., M.D....	1898	Fallowfield.
Davidson, Myers, M.D....	1864	(Deceased.)
*Dawson, Æneas McD., LL.D....	1886	(Deceased.)
*Dawson, Alexander, B.A....	1859	Temple.
Dawson, George M., LL.D....	1890	Ottawa.
Dawson, Henry G., M.D....	1885	Cape Vincent, N. Y.



Name.	Date of Graduation.	Address.
Dawson, Annie L., B.A....	1898	Ompah.
Day, Alfred E., B.A., 1895; M.A..	1896	Kingston.
Day, Barnabas W., M.D....	1862	San Diego, Cal.
Day, H. E., M.D....	1902	Kingston.
Day, Henry W., M.D....	1859	Belleville.
Day, Jonathan, M.D....	1877	(Deceased.)
Day, Lewis E., M.D....	1880	(Deceased.)
Day, Walter D. P. W., M.D....	1871	(Deceased.)
Day, Isaac, B.A....	1898	Orillia.
Deacon, M. Alberta, B.A....	1900	Brockville.
Dean, Marshall B., B.A....	1895	Toronto.
Deans, George, M.D....	1865	(Deceased.)
Deans, William C., M.D....	1861	(Deceased.)
de la Matter, Cornelia, B.A....	1900	Brown's Nurseries.
Demorest, Clara, M.D....	1890	Napanee.
Dempster, J. H., B.A....	1899	London.
Denaut, Henry J., M.D....	1892	South Bend, Ind.
Denike, George H., M.D....	1882	Fulton, N. Y.
Dennistoun, Robert, M., B.A....	1885	Peterboro.
Densmore, L. D., M.D....	1901	Maitland, N. S.
Denyes, James M., B.A....	1895	Newburgh.
Detlor, W. T., B.A....	1899	Napanee.
Devlin, J. L., M.D....	1899	Craig Col'y, Sonya, N.Y.
*Dewar, Donald L., B.A....	1886	Ailsa Craig,
Deynard, Adelbert B., M.D....	1875	New York.
Dickson, Annie E., M.D....	1886	(Deceased.)
Dickson, Charles R., M.D....	1880	Toronto.
9Dickson, C. W. M.A....	1900	Kingston.
Dickson, John R., M.D....	1863	(Deceased.)
Dickson, John R., M.D....	1868	(Deceased.)
Dickson, M. Evelyn, B.A....	1902	Kingston.
Dingman, William E., M.D....	1875	Listowel.
Dingwall, James, B.A....	1861	Cornwall,
Dickson, Andrew F., M.D....	1890	Toronto.
Dixon, John W., M.D....	1890	Burlington, Iowa.
Dixon, Mortimer L., M.D....	1886	Frankville.
5Dolan, G., B.A....	1899	Carleton Place.
Dolan, John H., B.A....	1897	Pictou.
*Donald, William, D.D....	1861	(Deceased.)
Donald, William, B.A....	1873	Pilot Mound, Man.
5, 7Donnell, J. A., M.A....	1902	Beaverton.
Donnelly, J., jr., M.E....	1898	Kingston.
Donovan, Edward, M.D....	1886	Langdon, Dak.
Donovan, Mary (Melville), B.A..	1892	Bakersville, Vt.
Donovan, Patrick C., M.D....	1879	Neche, N. D.
Douglas, Harry E., M.D....	1892	Muncie, Ind.



Name.	Date of Graduation.	Address.
Douglas, H. E. N., M.D....	1897	Kingston, Jamaica.
Douglas, James, B.A....	1858	Phoenixville, Penn.
Douglas, Robt., B.A., 1851; M.D..	1855	(Deceased.)
Dow, John Ball, B.A....	1875	Whitby.
Downing, James J., B.A....	1881	(Deceased.)
Downing, Jos. J., B.A., '92; M.D..	1896	Chesley.
Downing, William H., M.D.....	1888	(Deceased.)
Dowsley, David H., M.D....	1875	Ottawa.
Dowsley, George C., M.D....	1875	Gore Bay.
Dowsley, W. C., M.A....	1898	Frankville.
Doyle, J. D., M.D....	1898	Brooklyn, N. Y.
Drennan, Ethel, B.A....	1900	Kingston.
Drennan, Jennie G., M.D....	1895	St. Thomas.
Drummond, Andrew T., B.A., 1860; LL.B., 1863; LL.D....	1896	Kingston.
*Drummond, Daniel R., B.A., '89; M.A., 1890; B.D....	1892	St. Thomas.
Drummond, Francis A., B.A.....	1877	Winnipeg.
Drummond, Peter, M.D....	1889	Grant, Mich.
*Drummond, William J., B.A....	1885	Nanking, China.
Drummond, S. J., M.D....	1897	Casnovia, Mich.
*Duclos, John E., B.A....	1884	Valleyfield.
Duff, John, M.D....	1889	(Deceased.)
Duff, Hew R., M.D....	1884	Kingston.
4Duff, J., M.A....	1899	Kingston.
Dugdale, John J., M.D....	1867	(Deceased.)
Dumble, Thomas H., M.D....	1877	(Deceased.)
Dumble, William C., M.D....	1877	Toronto.
*Dumoulin, Bishop John P., M.A.	1870	Toronto.
Dunbar, Neil, B.A....	1854	(Deceased.)
Dunbar, Samuel, M.D....	1855	(Deceased.)
Dunkley, A. W., M.A....	1899	Orangeville.
Dunkley, W. G., B.A....	1902	Picton.
Dunlop, James D., M.D....	1887	Alpena, Mich.
*15Dunlop, Jno. G., B.A., 1887; M.A.	1891	Japan.
Dunlop, Neil, M.D....	1861	Sydenham.
Dunn, Andrew T., M.D....	1864	North Augusta.
Dunning, J. C., M.D....	1897	Chicago, Ill.
Dupuis, Charles B., B.A....	1887	(Deceased.)
Dupuis, Eugene L., M.D....	1890	South Bend, Ind.
8Dupuis, James M., M.D....	1881	(Deceased.)
Dupuis, Nathan F., B.A., 1868; M. A., (Dean, Faculty of Practical Science, Queen's University)..	1868	Kingston.
Dupuis, Thomas R., M.D....	1860	(Deceased.)
Durie, C. L., B.A....	1899	Ottawa.

Name.	Date of Grauation.	Address.
Dwyer, E., B.Sc. ....	1902	Kingston.
Dwyer, J. G., M.A. ....	1902	Kingston.
Dwyre, Andrew W., M.D. ....	1885	Perth.
*Dyckman, Henry M., B.A. ....	1887	Pottstown, Penn.
Dyde, Chas. A., B.A., 1894; M.D..	1897	
Dyde, Geo. E., B.A., 1889; M.A. ...	1897	(Deceased.)
I, 4Dyde, S. W., B.A., 1883; M.A., 1884; D.Sc., (Profes'r, Queen's University) ....	1887	Kingston.
*Eakin, Joseph F., B.A. ....	1866	(Deceased.)
Earl, William M., M.D. ....	1890	Bishop's Mills.
6Easton, William H., M.A. ....	1893	
Echlin, Edm. J. B., B.A., '99; M.D.	1891	Ottawa.
*Edmison, Henry, B.A., '63; M.A.	1866	Rothsay, Ont.
Edmison, G. A., B.A. ....	1898	Rothsay.
Edmison, J. H., B.A. ....	1898	Peterboro.
Edwards, C. B., B.A. ....	1900	London, Ont.
Edwards, Cephas H., B.A. ....	1896	Keene.
Edwards, J. W., B.A., 1900; M.D..	1900	Cataraqui.
Eldon, R. H., B.A. ....	1901	Toronto.
Elliott, Arthur R., M.D. ....	1889.	Chicago.
Elliott, Edwin, B.A. ....	1886	Kingston.
Elliott, Gilbert John, Earl of Minto, G.C.M.G., LL.D. ....	1899	Ottawa.
Elliott, H. H., M.D. ....	1898	Seeley's Bay.
Elliott, John, B.A. ....	1889	Leamington.
Elliott, Thomas A., B.A. ....	1879	Brockville.
Elliott, Walter H., B.A. ....	1894	Hamilton.
Ellis, G. E., B.A. ....	1901	Ellisville.
Elmer, William W., M.D. ....	1858	Spokane Falls, Wash.
Elwell, W. D., M.D. ....	1863	(Deceased.)
Embury, Alex. T., M.D. ....	1896	Belleville.
Embury, Elizabeth, M.D. ....	1888	Belleville.
Emery, George F., M.D. ....	1889	Gananoque.
Emery, Horatio J., M.D. ....	1884	Crosswell, Mich.
Empey, Charles T., M.D. ....	1880	Cross Hills, Leeds, Eng.
Empey, William A., M.D. ....	1881	Spencerville.
Erly, Francis W. J., M.D. ....	1868	(Deceased.)
Errett, Alfred J., M.D. ....	1887	(Deceased.)
Eshoo, S. O., M.D. ....	1902	Oroomiah, Persia.
*Etherington, Edward J., B.A. ....	1891	Sunderland.
Etherington, F., M.D. ....	1902	Portsmouth.
Evans, Henry, M.D. ....	1858	(Deceased.)
Evans, Henry A., M.D. ....	1878	Picton.
*Evans, Joseph, B.A., 1855; M.A. ...	1857	Rowland.
Ewart, W. M., B.A. ....	1898	Smith's Falls.

Name.	Date of Graduation.	Address.
11Ewing, William C., M.A....	1895	Renfrew.
Fadden, W. S., M.D....	1898	Aultsville.
Fairbairn, Archibald C., M.D....	1871	Minneapolis, Minn.
Fairfield, Charles A. D., B.A....	1887	St. Catharines.
Fairlie, M. F., B.Sc.,... ..	1902	Kingston.
Fahey, E. W., M.D....	1901	Kingston.
Falconer, John P., B.A....	1889	Sydney, C. B.
Farley, Frank J., M.D....	1894	Trenton.
Farrell, Alexander G., B.A....	1885	Smith's Falls.
Farrell, James M., B.A....	1889	Kingston.
Farrell, J. T., M.D....	1861	(Deceased.)
Farrell, Thomas H., B.A., 1889; M. A., 1890; M.D....	1895	Utica, N. Y.
Farquarson, R. A., B.A....	1898	Kincardine.
Fee, Samuel H., M.D....	1862	Kingston.
Fee, S. M., B.A....	1899	Kilborn, Assa.
6Fee, W. M., M.A....	1899	Merrickville.
Feek, Robert G., B.A....	1882	Grenville, Que.
Feir, Harry, B.A....	1895	Basswood, Man.
11Fenwick, Arthur M., M.A....	1890	Moosejaw, N. W. T.
Fenwick, Kenneth N., B.A., 1871; M.A., 1874; M.D....	1874	(Deceased.)
Fenwick, Thomas M., M.D....	1864	(Deceased.)
Ferguson, Allen G., M.D....	1887	Chicago.
Ferguson, Archibald, B.A....	1883	Winnipeg.
Ferguson, Charles F., M.D....	1859	Kemptville.
Ferguson, Edward G., M.D....	1863	Macon, Georgia.
Ferguson, George A., B.A....	1894	Owen Sound.
*Ferguson, George D., B.A., Pro- fessor, Queen's University....	1851	Kingston.
Ferguson, James F. B.A....	1862	Kingston.
*Ferguson, John, B.A., 1876; M.A., 1878; B.D....	1879	(Deceased.)
Ferguson, J. Y., B.A....	1902	Admaston.
5Ferguson, Robert, B. A....	1882	London.
Ferguson, Robert B., M.D....	1863	(Deceased.)
Ferguson, Thomas B., B.A....	1863	Cincinnati, Ill.
Ferguson, William B., B.A....	1861	Kingston.
Ferguson, C. A., B.A....	1897	Admaston.
Ferguson, T. J. S., B.A....	1898	Carstairs, Alta.
Ferrier, G. C., M.D....	1900	Kingston.
File, Albert J., M. D....	1869	Ameliasburg.
8Findlay, John, B.A., 1887; M.A..	1888	Los Angeles, Cal.
2Findlay, William A., B.A....	1888	Quebec.
Finlayson, R. A., B.A....	1898	N. E. Margaree, N. S.
Firth, W. P., B.A., 1900; M.A....	1901	Pickering.

Name.	Date of Graduation.	Address.
Fisher, Albert J., M.D....	1887	Brigden.
Fitchett, H. H., B.A., LL.D.....	1899..	Melbourne, Aus.
*17Fitzgerald, Alfred, B.A....	1889	Kilburn, N. S.
Fitzgerald, Eliza S., B.A., 1884; M.A....	1899	Cornwall.
Fitzgerald, Gerald D., M.D....	1894	Peterboro.
*Fitzpatrick, Alfred, B.A.....	1889	
Flath, Emma S., B.A....	1902	Kingston.
Fleming, Hugh P., M.D....	1895	Ottawa.
*Flemming, David, B.A....	1887	Harrowsmith.
Fletcher, Jas., F.R.S.C., LL.D....	1896	Ottawa.
Fletcher, John, M.A., LL.D., (Pro- fessor Toronto University)....	1896	Toronto.
11Fletcher, W. H., M.A....	1902	Kingston.
Fletcher, William P., B.A....	1896	Newmarket.
Foley, Declan E., M.D....	1886	Westport.
Foley, Ignatius J., M.D....	1891	(Deceased.)
10Folger, Howard S., B.A....	1887	Kingston.
Folger, Matthew H., B.A....	1885	New York, U. S.
14Ford, A. B., M.A., 1894; M.D...	1897	Whitby.
Ford, Henry B., M.D....	1885	Bouck's Hill.
Ford, Herbert D., M.D....	1874	Chicago, Ill.
*Forest, John, D.D., (Principal Dalhousie College)....	1863	Halifax.
Forin, Alexander, M. D....	1894	Nelson, B. C.
Forrester, Edgar, B.A., '82; M.D..	1884	Brockville.
Fortescue, Charles, B.Sc....	1898	Kingston.
Foster, Robert J., M.D....	1859	(Deceased.)
Fowkes, John T., M.D....	1891	Lafrageville, N. Y.
Fowlds, Mary T., B.A....	1896	Hastings.
Fowler, Annie, L. B.A....	1884	Kingston.
Fowler, Fife, M.D., (Dean, Medi- cal Faculty, Queen's Univers.)	1863	Kingston.
5Fowler, Henry C., B.A....	1881	Toronto.
Fowler, Jennie. (Kilborn), B.A...	1890	(Deceased.)
*Fowler, William J., B.D....	1888	Kirkland, N. B.
Fowler, A. J., B.A....	1901	Erin.
Fox, Catherine H. C., B.A....	1902	Mountain Grove.
Fox, Charles B., M.A....	1894	Hamilton.
Fox, Edward C., M.D....	1864	
Foxton, Edward, M.D....	1884	Ottawa.
Foxton, Joseph, B.A....	1886	Kingston.
Fraleck, Judge Edison B., B.A....	1863	Belleville.
Fraleck, E. L., B.A....	1897	Belleville.
Franklin, Benjamin W., M.D....	1856	Port Burwell.
Fraser, Anson S., M.D....	1869	Sarnia.

Name.	Date of Graduation.	Address.
Fraser, Alexander G., B.A....	1852	(Deceased.)
Fraser, Archibald, B.A....	1848	(Deceased.)
*Fraser, Donald, B.A., '64; M.A..	1866	(Deceased.)
Fraser, George, L.B., B.A. ....	1870	Ottawa.
Fraser, Helen F., B.A....	1901	Hamilton.
*Fraser, James, B.A....	1865	Cushing, Que.
*Fraser, Jas. R., B.A., '93; M.A...	1895	Uxbridge.
Fraser, John, M.A., LL.D.....	1887	Maitland, Aus.
Fraser, John B., M.D....	1888	Toronto.
*Fraser, John F., B.A....	1869	Manotick, Ont.
Fraser, John M., B.A., 1857; M.D.	1861	(Deceased.)
*Fraser, Joshua, B.A. ....	1858	(Deceased.)
Fraser, Robert N., M.D....	1884	Thamesville.
Fraser, Wilhelmine G., M.D.....	1890	
*Fraser, William, D.D....	1878	(Deceased.)
Fraser, Annie E., B.A....	1897	Victoria, B. C.
Fraser, William A., B.A....	1898	Big Harbor, C. B.
Fraser, Thurlow, B.A., '98; B.D..	1898	Ottawa.
Frechette, Louis H., LL.D....	1881	Montreal.
Freeland, Anthony, M.D....	1889	Ottawa.
Freeman, Albert E., M.D....	1887	Inverary.
Frizell, J. R., B.A....	1897	Munster.
Froiland, Herb. M., B.A., '82; M.D	1883	(Deceased.)
Fuller, Wm. H., B.A., 1867; M.A.	1873	(Deceased.)
Fulton, Cyril, M.D....	1894	Lyons, N. Y.
Funnell, Ada A., M.D....	1887	Hamilton.
Funnell, Rozelle V., M.D....	1890	Ottawa.
11Furlong, Thomas H., M.A.....	1897	Simcoe.
Gage, H. E., M.D....	1902	Kingston.
Gage, J. E., M.D....	1898	Riverside, Cal.
Galbraith, John E., M.D....	1880	(Deceased.)
Galbraith, R., B.A....	1897	Simcoe.
Gallaher, Morton, M.D....	1887	Bay City, Mich.
*Gallaher, John, B.A....	1878	(Deceased.)
Galligan, Thomas D., M.D....	1886	Eganville.
4, 5*Gandier, Alf., B.A., '84; M.A.	1887	Toronto.
Gandier, Augustin, M.D....	1890	Sherbrooke, Que.
Gandier, Daniel McG., B.A....	1894	San Bernardino, Cal.
Gandier, J. C., B.A....	1901	Newburgh.
Gardiner, R. J., M.D....	1891	Seeley's Bay.
Gardiner, Sydney H., B.A., 1897; M.D., 1889; M.A....	1890	Brooklyn, N. Y.
Garrett, Richard W., M.D., (Pro- fessor, Queen's University)...	1882	Kingston.
Gavin, Frederick P., B.A....	1896	Windsor.
Geddes, Robert W., B.A....	1896	Deseronto.

Name.	Date of Graduation.	Address.
*Geddie, John, D.D....	1866	(Deceased.)
*Geikie, A. Constable, LL.D.....	1884	(Deceased.)
*Geikie, J. Cunningham, D.D.....	1871	Barnstable, Eng.
Genge, T. S., M.D....	1901	Holleford.
Genge, William W., M.D....	1891	
Gerin, John, M.D....	1872	Auburn, N. Y.
Gibson, Albert E., M.D....	1887	Oakland, Iowa.
Gibson, J. Copel'd, M.A., '92; M.D.	1896	Hamilton.
Gibson, James C., M.D....	1892	New Haven, Mich.
Gibson, James F., M.D....	1891	Kingston.
Gibson, James D., M.D....	1893	
Gibson, John J., M.D....	1893	Alexandria, Ind.
Gibson, A. M., M.D....	1874	(Deceased.)
Gibson, William J., B.A., 1874; M. D., 1881; M.A....	1882	Belleville.
Gildersleeve, James P., LL.B....	1863	Kingston.
Giles, George C., M.D....	1893	Marne, Iowa.
Giles, John G., M.D....	1860	Athens.
Gilfillan, James, B.A....	1896	Bowmanville.
*Gill, Henry, D.D....	1865	England.
Gillen, Erastus, M.D....	1894	Mount Morris, N. Y.
Gillespie, Henry M., M.D....	1896	Elma, Iowa, U. S.
Gillies, George, B.A....	1874	Toronto.
Gillies, Neil, M.D....	1871	Brandon, Man.
Gillies, William F., B.A....	1891	(Deceased.)
Gillis, Angus B., M.D....	1888	Salem, Ore.
3*Givan, Arpad, B.A....	1883	Williamstown.
12Givens, David A., B.A....	1878	Kingston.
Givens, Hannah A. (Marshall), B.A.	1887	Kingston.
Givens, William R., B.A....	1888	Toronto.
*Glassford, Thomas S., B.A.....	1875	Donald, B. C.
Gleeson, James H., M.D....	1864	(Deceased.)
Glover, Thomas J., B.A....	1894	Kingston.
4Gober, Mai, B.A., 1898; M.A....	1899	Atlanta, Ga.
Goodchild, J. F., M.D....	1899	Craigleith.
Goodfellow, J., B.A....	1900	Parham.
Goodwill, T. W., B.A....	1898	Charlottetown.
Goodwill, V. L., M.D....	1899	Charlottetown, P. E. I.
Goold, Arthur J., B.A....	1883	Waterford.
*Gordon, James, B.A., 1851; M.A..	1854	(Deceased.)
Gordon, John G., B.A....	1861	Slocan, City, B. C.
Gordon, Annie E., B.A....	1897	Ottawa.
Gordon, D. L., B.A....	1897	Fernie, B. C.
*Gould, S. H., B.A., M.D....	1897	Nablus, Palestine.
8Gould, W. H., M.A.....	1900	Kingston.
*Gow, Robert, B. A....	1883	Moosejaw, N. W. T.



Name.	Date of Graduation.	Address.
Gowan, James R., C.M.G., LL.D..	1884	Barrie.
*Graham, Archibald, B.A....	1892	Lancaster.
Graham, D., M.D....	1902	
Graham, Elsie K, B.A..	1902	Kingston.
Graham, Hedley C. W., M.D....	1889	Rochester, N. Y.
Graham, P. E., B.A....	1898	Kingston.
Graham, R. R., B.A....	1902	Bowell.
Graham, S. N., B.Sc....	1900	Kingston.
Grange, Thomas A., B.A....	1895	(Deceased.)
Grange, William A., B.A....	1898	Napanee.
Grant, A. F., M.D....	1899	Peterboro.
*Grant, Hugh R., B.A....	1883	Trenton, N. S.
Grant, James A., B.A....	1878	Richmond Hill.
*Grant, Kenneth A., M.A., D.D..	1893	San Fernando, W. I.
Grant, Norman M., B.A., '86; M.D.	1889	Auckland, New Zealand.
*Grant, Peter, D.D....	1868	Dundee, Scotland.
*Grant, William, D.D....	1883	(Deceased.)
1, 2Grant, William L., M.A.....	1894	Toronto.
Grasse, Sydney D., M.D....	1864	(Deceased.)
Gray, Henrietta A., B.A....	1899	Kingston.
*Gray, John, D.D., B.A., '73; M.A	1874	Orillia.
Gray, S. Harper, B.A....	1894	Dundas.
Gray, William A., M.D....	1890	Pembroke.
Green, Samuel D., M.D....	1891	Marquette, Mich.
Greenhill, Eva M., B.A....	1899	Smith's Falls.
Grenfell, Caroline P., B.A..	1899	Arnprior.
Grenfell, M. Elizabeth, B.A.....	1899	Arnprior.
Griffin, A. D., B.A....	1901	Woodstock.
Griffin, E. Scott., B.A....	1884	Toronto.
Griffith, Agnes J., M.A..	1896	Quebec.
Griffith, Edna B., B.A....	1896	Sydenham.
Grimshaw, W. S., M.D....	1901	Kingston.
Grover, G. A., B.Sc....	1902	Kingston.
28Guess, George A., M.A....	1894	Keewatin, Alg.
Guess, Harry A., M.A....	1895	Parham.
Gunsolus, Kenneth, M.D....	1871	Detroit, Mich.
Guy, W. A., B.A., 1897; B.D....	1901	Camden East.
Hackett, Joseph, M.D....	1858	(Deceased.)
Hagar, A. E., B.A....	1902	Brome, Quebec.
Hagar, Frederick C., M.D....	1895	Smith's Falls.
Haig, Andrew, B.A., 1888; M.A., 1889; M.D....	1891	Kingston.
Hales, James, B.A., 1888; LL.B..	1893	Toronto.
6Hall, J. R., B.A., 1897; M.A..	1898	Sarnia.
Hall, W. A., B.A., 1898; M.D....	1900	Kingston.
Halladay, R. W., B.A....	1902	Elgin.



Name.	Date of Graduation.	Address.
Halliday, Henry, B.A.... .	1884	Pembroke.
Hamilton, Andrew, B.A.... .	1855	(Deceased.)
Hamilton, David, M. D.... .	1862	Batavia, N. Y.
5, 21Hamilton, Charles F., M.A..	1890	Toronto.
Hamilton, David J., B.A.... .	1895	(Deceased.)
Hamilton, Jno. A., B.A., '77; M.D	1886	(Deceased.)
Hamilton, J. C., B.A.... .	1897	Ottawa.
Hamm, B. N., B.A.... .	1899	Bath.
Hanley, J. H., M.D.... .	1900	Kingston.
Hanley, Robert, M.D.... .	1898	Kingston.
Hanna, James E., M.D.... .	1886	Ottawa.
Harding, William E., M.D.... .	1888	Brockville.
Hare, William G., M.D.... .	1892	Bay City, Mich.
Harkness, Fred B., M.D.... .	1889	Irene.
Harkness, Thomas F., B.A.... .	1862	(Deceased.)
Harpell, J. J., B.A.... .	1902	Inverary.
Harper, A. M., B.A.... .	1900	Madoc.
Harper, John M., B.A.... .	1882	Quebec.
Harrington, A. W., M.D.... .	1881	(Deceased.)
Harris, J. Alton, M.D.... .	1899	Montreal, Que.
Harrison, Edgar D., M.D.... .	1891	Madoc.
Harrison, T. S., M.D.... .	1865	Selkirk, Man.
Hart, John F., M.D.... .	1887	Athens.
Hart, Michael W., M.D.... .	1887	Prescott.
*Hart, Thomas (Professor, Manitoba College), B.A., 1860; M. A., 1868; B.D. 1880; D.D....	1902	Winnipeg.
Harten, Geo. H., B.A.... .	1902	North Pownal, Vt.
*Hartwell, George E., B.A.... .	1888	Chentu, China.
Harty, J. J., M.D.... .	1897	Kingston.
Harvie, William D., M.D.... .	1889	Hillsboro, Dak.
Harvey, Albert E., M.D.... .	1869	Wyoming.
Harvey, Catharine, B.A.... .	1897	Sydenham.
Harvey, J. F., B.A.... .	1902	Sydenham.
Hastings, F. R., M.D.... .	1900	Ottawa.
Hawley, A. T., M.A.... .	1899	Napanee.
7Hay, Arthur G., B.A., '89; M.A..	1890	Morden, Man.
4, 7, 13, *Hay, Jno., B.A., '82; B.D	1885	Renfrew.
Hay, William, B.A., 1883; M.D...	1887	Antwerp, N. Y.
5, 7, 16Haydon, Andrew, M.A., 1893; LL.B.... .	1896	Almonte.
Hayes, William J., B.A.... .	1890	(Deceased.)
Hayunga, George, M.D.... .	1890	581 Broom St., N. Y.
Hazlett, I. W., B.A.... .	1901	Kingston.
1Heap, Frederick, M.A.... .	1890	Selkirk, Man.
Heath, Frederick C., B.A., '78; M.D.	1886	Brantford.

Name.	Date of Graduation.	Address.
Heenan, Daniel, B.A.... .	1849	(Deceased.)
Heeney, T. F., B.A.... .	1898	Lansdowne.
Heggie, David, M.D.... .	1865	Brampton.
Henderson, Donald, M.D.... .	1858	Winnipeg, Man.
Henderson, E. Mabel, M.D.... .	1892	Hamilton.
21Henderson, George F., B.A....	1884	Ottawa.
Henderson, Johnson, B.A.... .	1885	Chicago, Ill.
Henderson, Kenneth, M.D.....	1888	(Deceased.)
Henderson, Norman R., M.D.. .	1895	London.
Henderson, William, M.D.....	1895	(Deceased.)
*Henderson, William, D.D.. .	1862	(Deceased.)
Henderson, William H., M.D.. .	1879	(Deceased.)
Henry, George, M.D.... .	1869	(Deceased.)
Henstridge, Elizabeth, M.A.. .	1897	Portsmouth.
Herald, Dundas, M.D.... .	1891	Walsh, Assa.
24Herald, John, B.A., 1876; M.A., 1880; M.D., (Professor, Queen's University).... .	1884	Kingston.
Herald, R. T. Wilson, M.D.....	1890	150 Mile, B. C.
Herbison, Robert, M.A.... .	1896	Ottawa.
Herbison, William J., B.A.... .	1895	Minnedosa, Man.
Herchmer, Ethel M., B.A.... .	1901	Kingston.
Hermiston, George M., B.A.....	1895	Picton.
Herriman, Weston LeRoy, M.D..	1855	Lindsay.
Herrington, Anthony W., M.D...	1881	(Deceased.)
Heslop, John E., M.D.... .	1887	West Bay City, Mich.
Hickey, Daniel C. M.D.... .	1883	(Deceased.)
Higgins, Edward M., M.D.... .	1877	(Deceased.)
Higginbotham, William, M.D....	1871	Omemece.
Hilker, Adam E., M.D.... .	1889	Jamaica.
Hill, F. L., M.D.... .	1897	Seaforth, N. S.
Hill, J. T., M.D.... .	1902	Napanee.
Hills, W. H., M.D.... .	1898	Acadia Mines, N. S.
Hillier, Solomon C., M.D.... .	1869	Bowmanville.
Hillier, William, M.D.... .	1855	(Deceased.)
Hindle, George, B.A.... .	1899	Orillia.
9Hiscock, R. C., M.A., '96; M.D..	1900	Kingston.
Hoag, James P., B.A.... .	1896	Brantford.
Hoare, Walter W., M.D.... .	1864	Strathroy.
Hodge, George, M.D., (Professor Western University).. .	1870	London.
*Hodge, James, B.A.... .	1892	Oshawa.
20Hodgson, R. T., M.A.... .	1899	Guelph.
Hoffman, George C., LL.D.....	1895	Ottawa.
*Hogg, John, D.D.... .	1871	(Deceased.)
Holdcroft, Joseph, M.D.... .	1889	(Deceased.)

Name.	Date of Graduation.	Address.
Holdcroft, W. T., B. A., '88; M.D.	1890	Havelock.
Holmes, F. S. LeRov M.D.... ..	1877	Kemptville.
*Hooper, Ebenezer, M.D.... ..	1885	Toronto.
Hooper, Edm. J., B.A., 1858; M.D.	1861	(Deceased.)
Hooper, Josephine A., B.A.... ..	1885	St. John, N. B.
Hope, James A., B.A., 1862; M.A..	1864	(Deceased.)
Hord, A. H., B.A., 1899; M.A....	1901	Mitchell.
Horsey, Alfred, M.D.... ..	1865	Ottawa.
Horsey, Edward H., M.D.... ..	1860	(Deceased.)
Horsey, Edward H., M.D.... ..	1888	Owen Sound.
Horsey, Florence M., B.A.... ..	1902	Kingston.
Horsey, Henry H., B.A.... ..	1895	Yokohama, Japan.
3*Horsey, H. E., B.A., 1886; M.A.	1887	Abbottsford, Que.
Horton, C. W., B.A.... ..	1899	London, Ont.
Horton, Robert N., M.D.... ..	1879	Brockville.
Hossie, Thomas R., M.D.... ..	1879	(Deceased.)
Hourigan, Andrew B., M.D.... ..	1877	Peterboro.
Houston, William R., M.D.... ..	1871	Chatham, O.
Howell, George W., M.D.... ..	1867	Tweed, O.
Howells, Thomas B., M.D.... ..	1863	(Deceased.)
Hoyles, N. W., B.A., LL.D.... ..	1902	Toronto.
Hubbs, Henry A. M., M.D.. ..	1877	Bay City, Mich.
Hudson, Charles H., M.D.....	1896	Belleville.
Huff, S., B.A.... ..	1902	Meaford.
Huffman, A. F., B.A.... ..	1900	Gilead.
Huffman, F. G., M.D.... ..	1897	Oswego Falls, N. Y.
Huffman, R. W., M.D.... ..	1899	Lincoln, Nebraska.
Hugo, Frank M., B.A., 1892; M.A., 1893; LL.B.... ..	1895	Watertown, N. Y.
Hughes, R. E., M.D.... ..	1902	Ottawa.
3, 8Hume, John P., B.A.... ..	1881	Campbellford.
*Hunter, Alexander, B.A.... ..	1861	(Deceased.)
Hunter, H. A., B.A., '92; M.D....	1899	Fort Bidwell, Cal.
5Hunter, James McF., M.A.... ..	1883	(Deceased.)
Hunter, Robert F., B.A., '92; M.A. 1897; B.D.... ..	1901	Baltimore.
*Hunter, Robert J., B.A.... ..	1888	
Hunter, W. R., B.A., '99; M.A....	1900	Smith's Falls.
Hurdman, A. G., M.D.... ..	1901	Ottawa.
17*Hutcheon, Robert J., M.A....	1892	Ottawa.
Hutcheson, James, B.A.... ..	1881	Brockville.
Hutchison, John, M.D.... ..	1886	Meaford.
Ikehara, Toshi C., B.A.... ..	1896	Japan.
Ilett, Ambrose E., B.A., '94; M.D.	1898	Watertown, N. Y.
Ingersoll, Isaac F., M.D.... ..	1863	Picton.
Ingram, J. R., B.A.... ..	1897	Lindsay.

Name.	Date of Graduation.	Address.
Instant, Reginald A., B.A.... .	1895	Emerald.
Ireland, Charles F., B.A.... .	1866	Winnipeg.
1Ireland, F. Archer W., M.A....	1891	New York, U.S.A.
Irvine, William H., B.A., '77; M.D	1896	Wolfe Island.
Irvine, R. W., B.A.... .	1897	
Irving, Lennox, B.A.... .	1886	Pembroke.
Irving, Robert M., B.A.... .	1896	Riverside, Cal.
Irving, William G., B.A.... .	1894	Riverside, Cal.
Irwin, Arthur W., M.D.... .	1896	Oswego, N. Y.
Irwin, Chamberlain A., M.D....	1863	(Deceased.)
Irwin, William, B.A.... .	1896	Stratford.
Jack, George G., M.D.... .	1886	Patten, Me.
James, Charles, M.D.... .	1888	Sylvan.
James, Herbert J., M.D.... .	1893	Bathgate, N. Dakota.
James, Michael, M.D.... .	1887	Mattawa.
Jamieson, Alexander, B.A.... .	1863	(Deceased.)
Jamieson, Alison, M.D.... .	1892	London.
Jamieson, Archibald, M.D.... .	1886	North Gower.
Jamieson, David, M.D.... .	1888	Kars.
Jamieson, Georgina, M. A.... .	1899	Napanee.
Jamieson, John, M.D.... .	1881	(Deceased.)
Jamieson Thomas J., M.D.... .	1888	Mountain.
Jaquith, W. A., M.D.... .	1898	Chicago, Ill.
Jardine, Robert, B.A., 1863; M.A., 1866; B.D.... .	1886	Chicago.
Jarvis, Charles E., M.D.... .	1882	London.
*Jenkins, Ebenezer E., LL.D....	1889	London, Eng.
Jewett, Albert, E., B.A.... .	1890	Chatham, Ont.
Johns, C. P., B.A., 1896; M.D....	1900	Kingston.
*Johnston, Frederick W., B.A....	1886	Philadelphia.
Johnson, D. B. B.A., .....	1901	West Lorne.
Johnson, William, B.A., 1849; M.A.	1852	(Deceased.)
Johnson, Absalom H. J., M.D....	1862	Lockport, N. Y.
Johnston, David A., M.D.... .	1881	(Deceased.)
Johnston, J. K., M.A.... .	1899	Calgary, Alta, N. W. T.
Johnston, John W., M.A.... .	1894	Calabogie.
Johnston G. L., B.A.... .	1897	Hamilton.
Johnston, J., B.A.. .	1897	Forrester's Falls.
Johnston, Joshua R., B.A.... .	1882	Raleigh, N. C.
Johnston, T. H., M.D.... .	1900	Drayton.
Johnston, William J., M.D.... .	1891	
Johnstone, David, M.D.... .	1868	(Deceased.)
Johnstone, William H., M.D....	1889	Tacoma, Wash Ter.
Joly, Henry G. DeLotbiniere, LL.D	1894	Lotbiniere.
Jones, Alfred W., M.D.... .	1896	Watertown, N. Y.
Jones, Henry M., M.D.... .	1866	Marmora.

Name.	Date of Graduation.	Address.
Jones, John, M.D....	1874	Kemptville.
Jones, L. W., M.D....	1902	Kingston.
Jordan, W. G., D.D., (Professor. Queen's University)...	1899	Kingston.
Joy, Sylvanus, M.D....	1857	Tilsonburg.
Joyner, Noble P., M.D....	1893	(Deceased).
Judson, George W., M.D....	1879	Lyn
Kahkewaquonaby, M.D....	1866	Hagersville.
Kalbfleish, Frederick H., M.D....	1888	Neustadt
Kannawin, William M., B.A., 1896; B.D....	1900	Omeme.
Kay, William, M.A....	1855	(Deceased.)
Kayler, William B., M.D....	1896	Saginaw, Mich.
Keillor, James, B.A....	1900	Ridgetown.
Keith, Sylvanus, M.D....	1898	New Glasgow, N. S.
Kellock, David, M.D....	1899	Fulnerville Mines, N. Y.
Kellock, John D., M.D....	1862	(Deceased).
5, 17Kellock, John, McC., M.A....	1892	Morewood.
Kelly, David, M.D....	1861	(Deceased).
Kelly, Edward J., M.D....	1861	(Deceased).
Kelly, John J., B.A., 1888; M.D....	1892	Sydney, N. S. W.
*Kelly, T. Webster, B.A....	1886	Castorville.
Kelly, W. G., M.D....	1897	Bay City, Mich.
Kellock, J. Mc., M.A....	1892	Morewood, Ont.
Kellock, W. McC., B.A....	1897	Pembroke.
*Kemp, Alexander F., LL.D....	1871	(Deceased.)
Kemp, J. A., M.D....	1861	(Deceased.)
Kemp, James A., M.D....	1892	Indian Head, N. W. T.
3Kemp, W., B.A., 1898; M.A....	1899	Kingston.
Kennedy, Alexander, M.D....	1876	Port Arthur.
Kennedy, Alfred, M. A....	1901	Agincourt.
Kennedy, Jacob B., M.D....	1873	New South Wales.
Kennedy, Jennie M., B.A....	1899	Apple Hill.
Kennedy, John D., B.A....	1885	Pembroke.
Kennedy, John T., M.D....	1891	Fort McKavett, Texas.
Kennedy, Roderick, M.D....	1863	Bath.
Kennedy, T., M.A....	1899	Agincourt.
Kennedy, William B., M.D....	1878	Guelph.
Kerfoot, H. W., B.A....	1900	Prescott.
Kertland, Edwin H., M.D....	1865	Toronto.
Kidd, Edward, M.D....	1871	Kingston.
24Kidd, John F., M.D....	1883	Ottawa.
Kidd, William E., M.D....	1891	Oak Park, Ill.
Kidd, William J., B.A....	1887	Ottawa.
*Kidd, P. E....	1878	Brooklyn, N. Y.
Kilborn, H. J., M.D....	1899	Oso.

Name.	Date of Graduation.	Address.
8 Kilborn, Omar L., B.A., 1888; M. A., 1889; M.D. ....	1889	Chentu, China.
Kilborn, Ronald, M.D. ....	1879	Kingston.
Kincaid, Robert, M.D. ....	1868	Olympia, Oregon.
King, Francis, B.A., 1889; M.A. .	1890	Kingston.
King, William W.; M.A. ....	1895	Philadelphia, Pa.
Kingsford, William, C.E., LL.D. .	1889	Ottawa.
Kinsley, Patrick J., M.D. ....	1894	Cambridge, Mass.
Kirk, Fred Jas., B.A., 1888; M.D. .	1892	Brooklyn, N. Y.
Kirkconnell, Thomas A., B.A. ....	1894	Port Hope.
Kirkland, W. S., M.A. ....	1901	Morrisburg.
Kirkpatrick, Charles S., B.A. ....	1893	Kingston.
Kirkpatrick, Francis G., B.A. . . .	1891	Lombardy.
Kirkpatrick, Hon. Geo. A., LL.D. .	1893	(Deceased.)
Kirkpatrick, Herbert R., B.A. ....	1895	Kingston.
Kirkpatrick, Guy H., B.Sc.'97; M.E.	1898	Toronto.
Knapp, Albert E., B.A. ....	1895	Elginburg.
12 Knight, Archibald P., B.A., 1872; M.A., (Professor Queen's Un- iversity) ....	1874	Kingston.
Knight, John H., M.D. ....	1880	Wallaceburg.
Knight, A. S., M.D. ....	1897	Enfield Centre, N. Y.
*Knowles, Robert E., B.A. ....	1892	Galt.
Knox, Henry, M.D. ....	1882	(Deceased.)
Koyl, Frederick T., M.D. ....	1882	Ada, Minn.
Koyl, Frank H., M.D. ....	1888	Hornellsville, N. Y.
Kyle, Robert J. M., M.D. ....	1895	(Deceased.)
Kyle, William A., M.D. ....	1885	Manotick.
Lafferty, James, M.D. ....	1871	Calgary, Alberta.
Lafferty, William A., M.D. ....	1879	(Deceased.)
Laidlaw, Alexander R., M.D. ....	1857	(Deceased.)
Laidlaw, C., B.A. ....	1902	Toronto.
Laidlaw, J. H., B.A. ....	1900	Georgetown.
Laird, Annie L., B.A. ....	1901	Kingston.
Laird, D. H., M.A. ....	1898	Winnipeg.
*Laird, Robert, M.A. ....	1893	Brockville.
Lake, Charles B., M.D. ....	1866	Ridgetown.
Lake, E. J., M.D. ....	1898	Kingston.
Lambert, Robert, M.D. ....	1859	Windsor.
Lamont, John, B.A. ....	1890	Toronto.
Lane, Isaac J., M.D. ....	1886	North Williamsburg.
Lane, Joseph W., M.D. ....	1875	Mallorytown.
Lanfear, Henry O., M.D. ....	1889	Melrose, Ind.
*Lang, George R., B.A. ....	1885	Wolfe Island.
12*Lang, Wm. A., B.A., '73; M.A.	1876	(Deceased.)
14 Langford, T. E. M.A. ....	1898	Shelburne.



Name.	Date of Graduation.	Address.
*Langill, Paul F., B.A....	1881	Martintown.
Lavell, Alfred E., B.A....	1892	Ayr.
Lavell, Cecil F., M.A....	1894	Philadelphia.
Lavell, Charles H., M.D....	1873	(Deceased.)
Lavell, Harry A., B.A....	1888	Smith's Falls.
12Lavell, John B., B.A....	1877	Smith's Falls.
Lavell, Michael, M.D....	1863	(Deceased.)
Lavell, William A., M.D....	1881	(Deceased.)
Lavers, Frank C., M.D....	1891	New Ross, N. S.
Lawlor, Michael, M.D....	1857	(Deceased.)
Lawlor, R. G., B.A....	1902.	Sydenham.
Lawyer, Annie, M.D....	1888	Ottawa.
Lazier, D. B., M.D....	1901	Halcyon Springs, B. C.
Leahy, Bernard J., M.D....	1894	Point Jarvis, N. Y.
Leask, Harry, B.A....	1888	Sudbury.
Leavitt, Arvin S., M.D....	1869	L'Amable.
Leavitt, Minnie G., M.D....	1893	East Hatley, Que.
Leckie, N. M., B.A., B.D..	1902	Hamilton.
Lees, Richard, M.A....	1891	St. Thomas.
Leitch, James A., B.A....	1892	Watson's Corners.
Lennox, David, B.A....	1861	
Lent, Edwin J., M.D....	1892	South Bend, Ind.
Leonard, Raymond A., M.D....	1879	Napanee.
Le Sueur, W. D., LL.D....	1900	Ottawa.
Letellier, A., M.D....	1897	Peterboro.
Lett, Ralph M., B.A....	1889	St. Thomas.
Lewis, Frederick W., M.D....	1878	Orangeville.
*Lewis, Lewis, B.A....	1881	Derby, Eng.
Lewis, L. L., B.A....	1900	Kingston.
Lewis, T. N., B.A....	1900	Smith's Falls.
Liebner, E. O., B.A....	1902	Orillia.
Lindsay, C. V., M.A....	1900	Toronto.
*Lindsay, John, B.A., '52; M.A....	1854	(Deceased.)
*Lindsay, Peter, B.A....	1851	Toronto.
4*Linton, Adam, R., B.A., '81; B.D.	1885	Toronto.
Litchfield, John P., M.D....	1863	(Deceased.)
Little, William C., M.D....	1889	Warracknabael, Aus.
*Livingston, John, B.A....	1857	(Deceased.)
Livingstone, John S., M.D....	1888	(Deceased.)
*Livingstone, Peter S., B.A....	1870	(Deceased.)
Livingstone, Marion (Gillen), M.D.	1887	(Deceased.)
*Lochead, Jno. S., B.A., '61; M.A.	1863	North Gower.
Lochead, Lachlin T., B.A....	1888	Toronto.
Lochead, W. M., M.A....	1898	Kawaguchi, Osaki, Jap.
Locke, John A., M.D....	1893	Algonquin.
Lockhart, Alfred J., M.D....	1892	Harrowsmith.



Name.	Date of Graduation.	Address.
Lockhart, George D., M.D.....	1890	King.
Lockhart, Thomas J., M.A....	1892	Cannington.
Lofthouse, William O. R., M.D..	1895	Kingston, Jamaica.
1, 18Logie, William A., B.A., 1887; .. M.A., 1888; LL.B....	1892	Hamilton.
Longmore, H. B. B.A....	1898	Alexandria.
Longwell, A., B.A.....	1900	Foxboro.
Loucks, J. E., B.A....	1901	Frankville.
Lorne, Most Noble, the Marquis of, LL.D....	1879	Inverary Castle, Scot.
Loudon, William, (President Uni- versity College), LL.D..	1894	Toronto.
*Lowe, Andrew T., B.A....	1878	Quebec.
Lowe, George R., B.A....	1895	Kingston.
Lowe, W. D., M.A....	1902	Kingston.
*Low, G. J., D.D....	1898	Almonte.
Lunam, Henry, B.A....	1877	Campbellton, N. B.
Lyle, William D., M.D....	1896	Havana, North Dakota.
Lynch, Dennis P., M.D....	1878	Almonte.
Lyon, Horatio V., B.A....	1885	Kingston.
Mabee, James E., M.D....	1887	Odessa.
Mabee, Horace C., B.Sc....	1898	Belleville.
Machar, John M., B.A....	1857	(Deceased.)
Madden, John H., B.A....	1889	Buffalo, N. Y.
Mahood, Perry, B.A....	1889	Kingston.
Malcolm, George, B.A....	1894	Stratford.
Malcolm, William G., M.D....	1893	Chesley.
Malloch, Archibald E., M.D., B.A.	1862	Hamilton.
Malloch, Edward G., B.A....	1860	Perth.
Malloch, George, B.A....	1865	Arnprior.
Malloch, G. S., B.A....	1902	Hamilton.
Malloch, George W., B.A....	1850	(Deceased.)
Mallory, Charley N., M.D....	1860	Delta.
Malone, Edith, B.A., 1899; M.A..	1900	Kingston.
Malone, Herb. V., B.A., '94; M.D.	1898	Frankford.
Mann, Alexander, M.D....	1876	Renfrew.
*Mann, James, D.D..	1869	(Deceased.)
Marselis, Eathen H., M.D....	1895	South Finch.
Mark Robert, M.D....	1867	(Deceased.)
Marquis, Thomas G., B.A....	1889	Brockville.
4, 13Marshall, Jno., B.A., '86; M.A.	1889	Kingston.
Marshall, J. W., B.A....	1898	Chippewa.
Marshall, W. F., M.A....	1898	Hachetsville, N. Y.
3Marty, Alletta E., M.A....	1894	St. Thomas.
3, 4Marty, Sophia E., M.A....	1897	Stratford.
Mason, G. W., M.A..	1902	Elmvale.

Name.	Date of Graduation.	Address.
Mason, James W., B.A....	1878	(Deceased.)
Mason, W. R., M.D....	1901	Ottawa.
Massie, Agnes M., B.A....	1895	Kingston.
Massie, John, M.D....	1865	(Deceased.)
Masson, Thomas, M.D....	1875	Cape Vincent.
Mather, William M., M.D....	1886	Tweed.
Mather, J. F., M.D....	1898	Middleville.
8Matheson, John, M.A....	1901	Dutton.
Matheson, Murdoch, M.D....	1870	Waverly, N. S. W.
Mattice, William D., B.A....	1847	(Deceased.)
Maudson, William H., B.A....	1896	(Deceased.)
Maudson, G. A., B.A....	1898	(Deceased.)
8Matthews, S. W., M.A....	1897	Peterboro.
Mavety, Alexander C., M.D....	1889	Toronto.
Maxwell, William J., M.D....	1888	(Deceased.)
*May, John, B.A., 1857; M.A....	1861	Franktown.
Maybee, Curtis O., M.D....	1888	New Providence, Iowa.
Maybee, Millard, M.D....	1887	Riverside, Cal.
Meacham, George P., M.D....	1891	Limestone, N. Y.
Meade, Robert, M.A....	1897	Brockville.
Meadows, R. W., M.D....	1862	H. M. Service.
Meagher, Daniel, M. D....	1867	Montreal.
Meek, C. F., M.D....	1900	New Baltimore, Mich.
*Meikle, William, B.A....	1881	Vancouver, B. C.
Meiklejohn, A.J., B.A....	1898	Dundas.
Mellon, F. B., M.D....	1901	Ottawa.
Mellow, L. E., M.D....	1902	Sillsville.
Mellow, Samuel S., M.D....	1886	Port Perry, Ont.
Melleville, Edmond J., M.D....	1892	Bakersville, Vt.
Menish, Janet I., B.A....	1895	Brockville.
Menzies, R. D., B.A., 1895; M.A., 1896; M.D....	1899	Glen Tay.
Mercer, John G., M.D....	1855	(Deceased.)
Merrill, J. Ward, B.A., '99; M.D..	1902	Ottawa.
Merriman, Wellington H., M.D..	1895	Latimer.
Merritt, C. P., B.Sc....	1899	(Deceased.)
Metcalfe, Archibald A., M.D....	1896	Almonte.
Millar, J. F., B.A....	1899	Millartown.
Miller, Eva M., B.A....	1902	Switzerville.
Miller, James D., B.A....	1896	Rossland, B. C.
Miller, James L., B.A....	1896	Byng Inlet.
4Miller, John, B.A., 1890; M.A....	1891	Phoenix.
Miller, John, B.A....	1886	Toronto.
Miller, John C. S., M.D....	1890	Seattle, Wash. Ter.
Miller, Lindsay F., M.D....	1877	Toronto.
Miller, Thomas, B.A....	1852	(Deceased.)

Name.	Date of Graduation.	Address.
Miller, Thomas, B.A., M.D.... ..	1854	Hamilton.
*Milligan, George, (D.D.), B.A....	1862	Toronto.
Milliner, William S., M.D.....	1864	(Deceased.)
Millions, Edna M., B.A.. ....	1901	Carleton Place.
Mills, Hon. David, LL.D.... ....	1901	Ottawa.
Mills, Rt. Rev. Bishop.... ....	1901	Kingston.
Mills, John H., B.A., 1889; M.A...	1890	Waterford.
Mills, Mabel V., B.A.... ....	1901	Kingston.
Mills, Martha C., B.A.... ....	1896	Aurora.
*Mills, William G., B.A.... ....	1885	New Westminster, B. C.
*Milne, James W. H., B.A.....	1887	Ottawa.
3Minnes, Robert S., B.A., 1889; M. A., 1890; M.D.... ....	1893	Ottawa.
Minor, Silas, M.A.... ....	1865	(Deceased.)
1, 2Misener, Geneva, M.A.... ....	1899	Niagara Falls.
Mitchell, Charles F., M.D.... ....	1890	Cleveland, Ohio.
Mitchell, Elizabeth, M.D.... ....	1888	Montreal, Que.
Mitchell, G. A., B.A.... ....	1899	Shadeland, Man.
2Mitchell, Geo. W., B.A., '85; M.A.	1891	Cobourg.
Mitchell, Harry F., M.D.... ....	1889	South Bend, Ind.
Mitchell, J., M.D.... ....	1899	Gladstone, Mich.
Mitchell, Joel W., B.A.... ....	1894	Lansdowne.
8Mitchell, Alfred S., M.A., (Pro- fessor Columbia College)....	1894	New York.
Moffat, Wm., M.A., 1894; M.D....	1898	Utica, N. Y.
Mooers, Henry F., B.A.... ....	1895	
Mooney, Thomas T., M.D.....	1896	Rochester, N. Y.
Moore, Andrew, M.D.... ....	1863	(Deceased.)
*Moore, John, B.A.... ....	1881	Burnbrae.
Moore, John, M.D.... ....	1891	Plainfield.
11Moore, Jas. R., B.A., '94; M.A..	1896	Brockville.
Moore, R. G., M.D.... ....	1902	Belleville.
Moore, Thomas A., M.D.... ....	1883	Westville, N. S.
Moore, Vincent H., M.D.... ....	1870	Brockville.
Morden, Frederick W., M.D.....	1894	(Deceased.)
Morden, Gilbert W., B.A.... ....	1888	Picton.
Morden, James B., M.D.... ....	1865	Picton.
Morden, John H., M.D.... ....	1859	(Deceased.)
Morden, Wilson S., B.A., '88; LL.B.	1894	Belleville.
Morden, J., B.A.... ....	1900	Kingston.
Mordy, Alfred A., M.D.... ....	1882	(Deceased.)
*Mordy, John, B.A., 1875; M.A....	1878	Oklahoma.
Morgan, Edward M., M.D.... ..	1890	Westmount, Que.
Munro, Maud E., B.A.... ....	1899	Perth.
Morris, Alexander C., B.A.... ..	1882	Toronto.
Morris, William, B.A.... ....	1882	Toronto.

Name.	Date of Graduation.	Address.
*Morrison, Judge Duncan, B.A., 1866; M.A. ....	1868	(Deceased.)
Morrison, Duncan, B.A. ....	1862	Owen Sound.
Morrison, A. S., B.A. ....	1898	Hanover.
Morrison, C. A. O., M.D. ....	1898	Kingston.
8Mortin, Alice, M.A. ....	1899	Aylmer.
Mostyn, William, M.D. ....	1858	(Deceased.)
Mowat, Herb. M., B.A., '81; LL.B	1886	Toronto.
*Mowat, John B., D.D., B.A., 1845; M.A., (Professor, Queen's Un- iversity) .....	1847	Kingston.
Mowat, John McD., B.A. ....	1895	Kingston.
Mowat, Sir Oliver, LL.D. ....	1872	Ottawa.
Muckleston, John S., B.A. ....	1865	
5Mudie, Ethel, B.A. ....	1899	Kingston.
Mudie, John, B.A. ....	1863	Kingston.
Muir, Alexander, B.A. ....	1851	Toronto.
Muir, James, B.A. ....	1861	Calgary.
*Muir, Jas. B., B.A., 1865; M.A. ...	1869	(Deceased.)
*Muir, James C., D.D. ....	1858	(Deceased.)
*Muir, Peter D., B.A. ....	1856	(Deceased.)
*Muirhead, John W., B.A. ....	1891	Whitewood, Assa
Muldrew, William H., B.A. ....	1895	Orillia.
Mullan, Nathaniel S., B.A. ....	1885	New York.
Mundell, Alma E., B.A. ....	1902	Kingston.
Mundell, David E., B.A., '83; M.D. (Professor, Queen's Univ'sy)	1886	Kingston.
Mundell, John, M. D. ....	1886	Kingston.
Mundell, William, B.A. ....	1875	Kingston.
Munro, David, M.D. ....	1867	Perth.
Munro, John C., M.D. ....	1867	(Deceased.)
5, 25Munro, William B., M.A., 1896; LL.B. ....	1896	Williamstown, Mass.
*Munro, J., B.A. ....	1897	Trail, B. C.
Munro, H. B., B.A. ....	1898	Almonte.
Munro, W. A., B.A. ....	1902	Chesterville.
5Murphy, Isabella, M.A. ....	1901	Antrim.
Murphy, John B., M.D. ....	1876	Brockville.
Murphy, Joseph E., M.D. ....	1893	Pakenham.
Murphy, W. S., B.A. ....	1901	Portland.
11Murray, D. C., M.A. ....	1901	Newton.
Murray, Herbert G. M.D. ....	1896	Owen Sound.
*Murray, Isaac, D.D. ....	1876	New Glasgow, N. S.
*Murray, James, B.A., 1882; B.D..	1884	St. Catharines.
Murray, Janet, M.D. ....	1891	Rossmore.
Murray, J. C., B.Sc. ....	1901	Halifax, N. S.

Name.	Date of Graduation.	Address.
*Murray, Robert C., B.A. . . . .	1882	(Deceased.)
Murray, Minnie (Chown), M.A..	1893	Renfrew.
Murray, May L., B.A. . . . .	1897	Kingston.
Myers, Ambrose R., M.D. . . . .	1894	Moncton, N. B.
Mylks, G. W., M.D. . . . .	1897	Kingston.
Macadam, Samuel J., M.D. . . . .	1873	Pembroke.
*Macalister, John M., B.A. . . . .	1865	Iroquois.
Macalister, Ursilla, M.A. . . . .	1900	Iroquois.
Macarthur, Duncan, B.A. . . . .	1878	Ailsa Craig.
*Macarthur, George, B.A. . . . .	1881	Cardinal, Ont.
Macarthur, Jas., B.A., 1875; M.D.	1878	London.
Macarthur, John A., B.A. . . . .	1880	Davenport, Wash. Ter.
McArthur, John H., B.A. . . . .	1895	Ottawa.
McArthur, J. H., M.D. . . . .	1897	East Barrie.
*McAuley, Alexander, B.A. . . . .	1883	Mitchell.
*Macauley, Evan, B.A. . . . .	1864	Ottawa.
Macauley, W.B. T., B.A. . . . .	1892	Montreal.
McBain, Alex., B.A., 1860; M.A..	1862	(Deceased.)
McBean, Alexander G., B.A. . . . .	1865	Montreal.
McBroom, James A., M.D. . . . .	1895	Brockville.
McCaig, James, B.A., LL.B. . . . .	1895	Lethbridge, Alta.
7McCallum, Judge Archibald B., B.A., 1880; M.A. . . . .	1881	Manitoulin Island.
McCallum, H. E., B.A. . . . .	1900	Kingston.
McCallum, J. A., B.A. . . . .	1899	Brewer's Mills.
McCambridge, C. J., M.D. . . . .	1898	Kingston.
McCammon, C. G., M.D. . . . .	1884	(Deceased.)
McCammon, Fred J., B.A., 1889; M.D. . . . .	1892	New York.
McCammon, James, M.D. . . . .	1863	(Deceased.)
McCammon, James A., M.D. . . . .	1879	Gananoque.
McCammon, Samuel H., M.D. . . .	1888	Kingston.
*McCannell, Donald, B.A. . . . .	1878	(Deceased.)
McCardel, Edward, M.D. . . . .	1886	Australia.
McCarthy, A. W., M.D. . . . .	1897	Stapleton.
*McCaul, James, B.A. . . . .	1859	Toronto.
11McClement, William T., B.A., 1888; M.A. . . . .	1889	Armour Inst., Chicago.
McColl, Angus, D.D. . . . .	1896	(Deceased.)
McColl, Allan E., B.A., '85; M.D..	1891	Belleville.
*McColl, Evan C. W., B.A. . . . .	1886	Bingham, Que.
7McColl, James A., M.A. . . . .	1895	Campbellford.
McConnell, Benjamin J., M.D. . . .	1881	Morden, Man.
McConville, A., M.D. . . . .	1900	Kingston.
McConville, Isobel, M.D. . . . .	1889	Kingston.
McCormack, Joseph, B.A. . . . .	1879	Williamstown.

Name.	Date of Graduation.	Address.
McCormack, M., B.A....	1901	Crieff.
McCracken, John I., B.A....	1874	Ottawa.
McCrea, H. H., M.D....	1899	Easton's Corners.
McCreary, Robert N., M.A....	1895	Carleton Place.
McCrimmon, Annie L., B.A....	1902	Alexandria.
McCuaig, Herbert M., B.A....	1884	Welland.
McCuaig, John A. E., M.D....	1891	Danville, P. A.
McCullagh, R. J., B.A....	1902	Cobourg.
McCulloch, And'w, B.A., '71; M.A.	1874	Port Arthur.
McCulloch, J., M.D....	1901	Port Perry.
McCullough, Thomas P., M.D....	1888	Dundalk.
McCullough, William S., M.D....	1875	(Deceased.)
McCutcheon, William C., M.D....	1894	Cassopolis, Mich.
McDermott, M. F., M.D....	1897	Kingston.
Macdonald, A., M.D....	1901	Ottawa.
*Macdonald, Alexander, B.A....	1861	Napanee.
Macdonald, Alexander R., M.D....	1857	Brighton.
McDonald, Charles, V.P.A.S.E., LL.D....	1894	New York.
*Macdonald, Clinton D., B.A....	1886	Grafton, N. Dak. U.S.A.
Macdonald, Colin, B.A....	1855	(Deceased.)
*Macdonald, Donald, B.A....	1854	(Deceased.)
*Macdonald Duncan, B.A., 1859; M.A....	1863	Dundee Centre, Que.
4Macdonald, Geo., B.A., '78; B.Sc.	1878	(Deceased.)
Macdonald, Herbert S. Judge, B.A. 1859; M.A....	1861	Brockville.
Macdonald, Hugh N., M.D....	1882	Whycocomagh, N. S.
McDonald, Hugh S., B.A., '91; M.D.	1895	Dresden.
7, 25Macdonald, J. F., M.A....	1899	Carleton Place.
2McDonald, James, M.A....	1892	Picton.
*McDonald, John A., B.A....	1888	Pittsburgh.
Macdonald, Sir John A., LL.D....	1863	(Deceased.)
Macdonald, John A., M.D....	1862	(Deceased.)
Macdonald, John F., M.D....	1896	Kilkenny, Minn.
*Macdonald, Kenneth J., B.A., 1894; B.D....	1896	Beaverton.
Macdonald, Nerva D. (Burns), B.A.	1894	Stirling.
Macdonald, Norval, B.A....	1900	Kingston.
Macdonald, Patrick A., B.A....	1876	Winnipeg.
McDonald, Wm., B.A., '98; B.D..	1901	Mountain.
Macdonnell, Æneas J., B.A....	1884	Ottawa.
*Macdonnell, Daniel J., B.D., B.A., 1858; M.A....	1860	(Deceased.)
1, 2Macdonnell, George F., M.A....	1893	Toronto.
Macdonnell, George M., B.A....	1860	Kingston.



Name.	Date of Graduation.	Address.
McDonnell, Hector, M.D....	1893	(Deceased.)
Macdonnell, J. A., M.D....	1862	
Macdonnell, L. M., B.A....	1902	Kingston.
19Macdonnell, James S., M.A....	1899	Montreal.
Macdonnell, John M., B.A....	1868	(Deceased.)
McDougall, Colin A., B.A....	1895	St. Thomas.
9McDougall, F. H., B.A....	1902	Maxville.
McDougall, James B., B.A....	1896	Blakeney.
McDowell, Charles, B.A....	1877	Renfrew.
McDowell, James A., B.A....	1867	(Deceased.)
6McEachran, J. M., M.A....	1902	Glencoe.
McEwen, Alexander D., M.D....	1895	Hulbert.
McEwen, Ewen, M.D....	1887	Singhampton.
*McEwen, Jas., B.A., '52; M.A....	1854	Hamilton.
McEwen, John, B.A....	1887	Smith's Falls.
McEwen, J. S., B.A....	1897	Carleton Place.
McFadden, Murdock, M.D....	1880	Mount Forest.
*Macfarland, John F., B.A....	1890	South Mountain.
Macfarlane, Andrew K. H., B.A..	1888	Tacoma, W. T.
7McGaughey, G. A., M.A....	1900	Deseronto.
McGhie, George S., M.D....	1883	Elgin.
McGibbon, A. A., M.A....	1898	Hawkesbury.
*McGillivray, Alexander, D.D..	1858	(Deceased.)
8McGillivray, Alice, M.D....	1884	Hamilton.
*McGillivray, Daniel, B.A....	1864	Lunenburg, N. S.
McGillivray, Farquhar, B.A..	1852	Ottawa.
*McGillivray, Malcolm, B.A. 1872; M.A....	1874	Kingston.
McGillivray, Neil J., B.A....	1847	(Deceased.)
Macgillivray, T. D., B.A....	1902	Kingston.
McGillivray, T. Shannon, M.D....	1888	Hamilton.
McGrath, Edward, M.D....	1888	Peterboro.
McGrath, George, M.D....	1893	Hamilton, Mon.
McGrath, Michael E., M.D....	1889	Chicago.
McGreer, C. G., B.A....	1901	Napanee.
McGregor, James G., M.D....	1895	Martintown.
McGregor, Peter C., B.A., '66; LL.D.	1901	Almonte.
*McGregor, P. G., D.D..	1876	(Deceased.)
McGuire, J., M.A....	1902	Westport.
12McGuire, Thos. H., B.A., Judge	1870	
23McGuirl, Thomas H., B.A....	1886	Ottawa.
McGurn, Joseph S., M.D....	1881	(Deceased.)
McIlroy, William A., B.A....	1898	North Williamsburg.
McInnes, John A., B.A....	1895	Ottawa.
McInnes, Charles R., M.A....	1896	Winnipeg, Man.
McInnes, W. H., B.A....	1902	Vankleek Hill.



Name.	Date of Graduation.	Address.
McIntosh, Colin, B.C.L., LL.B....	1896	Carleton Place.
McIntosh, Grace A., B.A....	1896	Vancouver, B. C.
3*McIntosh, Jas. W., B.A.'93; M.A	1894	South Monaghan.
McIntosh, Wm. D., B.A....	1892	Carleton Place.
McIntosh, Alexander, B.A....	1897	Alexandria.
McIntosh, J. A., B.A....	1902	Minden.
McIntosh, P. A., B.A....	1902	Dundela.
Macintyre, A. D., M.D....	1901	Glencoe.
12McIntyre, Donald M., B.A....	1874	Kingston.
McIntyre, Duncan, M.D....	1864	Glencoe.
McIntyre, John, B.A....	1847	(Deceased.)
McIntyre, John, B.A., 1861; M.A.	1872	Kingston.
McIntyre, Alex., B.A....	1898	Winnipeg.
McIntyre, W. C., B.A....	1898	Newington.
McJanet, J., B.A....	1900	Ottawa.
McKay, D. A., B.A....	1901	Kintore.
McKay, Donald G., B.A....	1865	(Deceased.)
*McKay, George L., D.D....	1880	Tamsui, Formosa.
McKay, John, B.A....	1888	Sault Ste. Marie.
12, 20McKay, Matthew W., B.A..	1879	Pembroke.
*McKay, Roderick, B.A., '81; B.D.	1886	
*McKay, William E., B.A....	1856	(Deceased.)
8McKechnie, J. H., B.A., '01; M.A	1902	Wiarton.
McKechnie, W., M.D....	1902	Elmside, Que.
McKee, M. Lillian, B.A....	1900	Peterboro.
*McKee, William, B.A....	1872	Alliston.
McKellar, Dugald, M.D....	1855	(Deceased.)
McKellar, Margaret, M.D....	1890	Neemuch, India.
McKenty, James, M.D....	1890	Gretna, Dakota.
McKenzie, Andrew, M.D....	1862	(Deceased.)
*McKenzie, Archibald, B.A., 1888; B.D....	1892	Cardston, Alta.
*Mackenzie, Archibald A., B.A., '77; B.Sc. '77; M.A. '88; D.Sc....	1896	St. Stephen, N. B.
McKenzie, Edward, M.D....	1860	Smith's Falls.
McKenzie, John A., B.A., Judge..	1856	Sarnia.
4McKenzie, Malcolm, B.A., 1887; M.A....	1894	McLeod, Alta.
*McKenzie, D. A., B.A....	1898	Bishop's Mills.
McKeown, Henry A., M.D....	1895	Belleville.
*Mackerras, John H., B.A., 1850; M.A....	1852	(Deceased.)
Mackie, David H., M.D....	1884	New York.
Mackie, T. A., M.D....	1896	Kemptville.
McKillop, Alexander, B.A....	1877	Montreal.
*McKillop, Charles, B.A....	1875	Lethbridge, N. W. T.

Name.	Date or Graduation.	Address.
McKillop, James T., M.D....	1889	Beachburg.
McKinnon, Alex. D., B.A.'94; B.D	1897	Boston, Mass.
MacKinnon, A. G., B.A....	1900	Ottawa.
MacKinnon, H. L., B.A., '97; B.D.	1900	Lake Ainslie, C. B.
*McKinnon, John, B.A., 1886; M. A., 1889; B.D....	1889	Springbank.
McKinnon, John, B.A., '94; B.D...	1897	Dalhousie Mills.
*McKinnon, Malcolm, B.A....	1885	Weston.
6*MacKinnon, M. A., B.A.'97; M.A.	1900	Toronto.
*McLachlin, Alexander, B.A.....	1884	Smyrna, Turkey.
McLaren, Alexander, M.D....	1865	Lancaster.
McLaren, A. F., M.D.....	1897	Lancaster.
Maclaren, C. H., B.A....	1902	Ottawa.
*McLaren, Ebenezer D., B.A., 1870; M.A., 1873; B.D., 1873; D.D...	1901	Vancouver, B. C.
McLaren, James, B.A....	1850	Nelson, O.
McLaren, John, B.A....	1856	(Deceased.)
12McLaren, J. B., B.A., '76; M.A..	1878	Winnipeg, Man.
McLaren, Peter, B.A....	1854	(Deceased.)
McLaren, Peter, LL.D....	1868	(Deceased.)
McLaren, Peter, B.A....	1866	Orms town, Que.
McLaren, T. O., M.D....	1902	Lancaster.
*McLaren, Wm., D.D (Professor)	1883	Toronto.
7McLaren, W. W., M.A. '99; B.D.	1902	Hamilton.
McLaughlin, Edward, M.D....	1886	Morrisburg.
*McLean, Alexander, B.A....	1878	(Deceased.)
McLean, Caird R., M.D....	1859	Meaford.
Maclean, Donald, M.D., LL.D....	1893	Detroit.
*McLean, Donald J., B.A....	1855	Arnprior.
McLean, Ernest H., M.D....	1891	Revelstoke.
*McLean, James M., B.A....	1887	Chatham, N. B.
McLean, James R., B.A....	1894	Arnprior.
McLean, Katherine G., B.A....	1896	Thorold.
McLean, Lauchlin H., B.A....	1894	Port Hastings, C. B.
*Maclean, Matthew W., B.A., 1869; M.A....	1872	Belleville.
McLean, N. J., B.A....	1899	Pembroke.
McLean, Solomon C., M.D....	1874	Spencerville.
McLean, Thomas F., M.D....	1863	(Deceased.)
McLellan, James A., M.D....	1891	Economy, N. S.
McLennan, A. L., B.A....	1897	Tilsonburg.
*MacLennan, Alexander, B.A.....	1857	(Deceased.)
*McLennan, Alex. K., B.A.'91; B.D.	1894	Boston, Mass.
McLennan, Alexander S., M.D...	1873	Chicago, Ill.
MacLennan, Donald B., Q.C., B.A., 1857; M.A....	1861	Cornwall.

Name.	Date of Graduation.	Address.
MacLennan, Donald, B.A., '48; M.A.	1862	
McLennan, Donald R., M.D. ....	1897	Cornwall.
McLennan, Duncan N., M.D. ....	1891	Port Hope.
McLennan, Elizabeth, B.A. ....	1899	Lancaster.
MacLennan, Finlay M., B.A. ....	1879	(Deceased.)
McLennan, G. B., B.A. ....	1901	Walkerton.
MacLennan, Hon. Mr. Justice Jas., B.A., 1849; LL.D. ....	1885	Toronto.
McLennan, J. D., B.A., B.Sc. ....	1902	Port Hope.
MacLennan, James J., B.A. ....	1887	Toronto.
MacLennan, John, B.A., Sheriff ..	1855	Lindsay.
*MacLennan, Ken., B.A., '49; M.A.	1868	(Deceased.)
MacLennan, Roderick J., B.A. ....	1884	Toronto.
*MacLennan, Wm., B.A., '64; M.A.	1866	(Deceased.)
McLeod, Alexander, B.A. ....	1883	Winnipeg.
McLeod, J. A. F. ....	1854	(Deceased.)
*McLeod, John, B.A. ....	1883	(Deceased.)
4, 7, 15, 17, *McLeod, Peter A., B. A., 1887; M.A., 1890; B.D. ....	1892	Atwood.
McMahon, James, M.D. ....	1873	Texasarkana, Texas.
McManus, Emily, M.A. ....	1894	Chesley.
McManus, John P. C., M.D. ....	1897	Bath.
Macmilan, Duncan, B.A., Judge ..	1857	Cayuga.
McMillan, A., B.A. ....	1899	Sonya.
McMillan, Hugh H., B.A. ....	1880	Dakota.
*McMillan, J., D.D., B.A. '62; B.D.	1865	Halifax.
*McMorrine, John, D.D. ....	1865	(Deceased.)
*Macmorrine, Jno. K., B.A. '59; M.A.	1863	Kingston.
*Macmorrine, Sam., B.A. '65; M.A.	1872	Portage la Prairie.
*McMullen, Andrew J., B.A. ....	1893	Springville.
McMurchy, Archibald, M.D. ....	1883	North Bay.
McMurchy, Archibald, B.A. ....	1875	Nipissing.
McNab, A. J., B.A., B.Sc. ....	1902	Douglas.
McNab, A. J., B.A. ....	1902	Douglas.
4McNab, Eliz. M., B.A. '01; M.A.	1902	Douglas.
*Macnab, Findlay F., B.A. ....	1859	Arnprior.
McNab, George G., M.A. ....	1902	Renfrew.
McNab, Robert C., B.A. ....	1897	Renfrew.
McNaughton, Elizabeth, M.A. ....	1900	Cornwall.
*Macnaughton, James P., B.A. ....	1884	Smyrna, Turkey.
McNee, J. E., M.D. ....	1891	(Deceased.)
Macnee, James H., B.A. ....	1885	Kingston.
Macnee, Peter C., B.A. ....	1873	Picton.
McNichol, Eugene C., M.D. ....	1877	Cobourg.
McPhail, A. C., B.A. ....	1899	Almonte.
*McPhail, Donald G., B.A. ....	1889	Picton.

Name.	Date of Graduation.	Address.
*McPhayden, Hugh, B.A....	1881	Manilla.
Macpherson, Alexander J., M.D..	1862	(Deceased.)
McPherson, Charles, F. S., M.D..	1896	Prescott.
Macpherson, Hattie G., B.A....	1897	Prescott.
Macpherson, Henry, B.A....	1851	(Deceased.)
Macpherson, Jas. P., B.A.'57; M.A.	1865	Ottawa.
Macpherson, Mary C., B.A....	1900	Prescott.
*McPherson, Neil, B.A., 1889; M. A., 1891; B.D....	1894	Hamilton.
McPherson, Norman A., B.A....	1889	Ogdensburg, N. Y.
McPherson, R. J., B.A....	1898	Kincardine.
McPherson, Wallace A., B.A....	1891	(Deceased.)
McPherson, William A. A., M.D..	1891	Prescott.
Macpherson, W. E., B.A....	1898	Prescott.
14McRae, A. D., B.A. 1900; B.Sc..	1902	Kingston.
*Macrae, Donald, D.D....	1880	Quebec.
McRae, Donella M., B.A....	1900	Perth.
McRae, Thomas W. R., B.A....	1886	Westmount, Que.
McSporran, J. A., B.A....	1902	London, Ont.
*McTavish, Alexander, B.A....	1881	Carnduff, Assa.
6, 17, 20, 24, *McTavish, D., B.A., 1881; M.A., 1882; D.Sc....	1885	Toronto.
McTavish, Duncan B. Judge, B.A., 1870; M.A....	1873	Ottawa.
McQuarrie, Alexander R., B.A....	1862	Burlington, Vt.
McVety, Albert F., M.D....	1886	Toledo, Ohio.
McVicar, John, B.A....	1897	Harrietsville.
*Nairn, Robert, B.A....	1879	Gretna, Man.
Nash, P. I., M.D....	1902	Kingston.
*Neill, Robert, D.D....	1872	(Deceased.)
Neilson, Bertha, B.A....	1896	Wilton.
Neish, A. C., B.A., 1898; M.A....	1900	New York.
Neish, James, M.D....	1865	Port Royal, Jamaica.
Neish, George J., M.D....	1890	Bath, Jamaica.
Neish, William D., M.D....	1887	Old Harbor, Jamaica.
Neish, James, M.D....	1897	Kingston, Jamaica.
Neish, D. B., M.D....	1897	Port Royal, Jamaica.
*Nelles, Samuel S., D.D....	1861	(Deceased.)
Nelson, John, B.A....	1899	Kemptville.
Nesbit, Edward, M.D....	1868	(Deceased.)
Neville, K. P. R., B.A., 1896; M.A.	1897	Urbana, Ill.
Neville, M. J., M.D....	1893	Brooklyn, N. Y.
Newlands, George, M.D....	1879	Seattle, U. S.
Newlands, Isaac, B.A....	1884	Buffalo, N. Y.
Newman, George E., B.A....	1891	Brighton.
Newton, John, M.D....	1866	Deseronto.

Name.	Date of Graduation.	Address.
Newton, Meta, B.A....	1902	Deseronto.
*Nicholson, Alex. B., B.A., (Assistant Professor and Lecturer, Queen's University)...	1867	Kingston.
Nickle, William F., B.A....	1892	Kingston.
Nicol, James, M.D....	1863	(Deceased.)
Nicol, Jennie (McKelvey), B.A..	1893	(Deceased.)
8, 11, 14, 23Nicol, Wm., B.A., '83; .. M.A.(Prof., Mining School)..	1889	Kingston.
*Nimmo, Jno. H., B.A., '69; M.D.	1886	Brockville.
Nimmo, H. M., B.A..	1898	Brockville.
Nisbet, David A., B.A....	1892	Newburgh.
Nish, James, D.D....	1880	(Deceased.)
*Niven, David P., B.A....	1867	St. Catharines.
Noble, D. S., B.Sc....	1902	Clarkson.
Noel, John V., B.A....	1863	(Deceased.)
Norris, Isaac T., B.A....	1894	Staffa.
8Norris, James, M.A....	1893	Kincardine.
North, Edwin, B.A....	1896	Young's Point.
Northmore Harold S., M.D....	1889	Bath.
Nugent, Andrew, B.A....	1876	(Deceased.)
Nugent, A., B.A., 1897; M.D....	1899	Dhar, Central India.
O'Connor, C. E., M.D....	1898	Kingston.
O'Connor, Charles, B.A....	1890	Ottawa.
Odell, Henrietta (Laird), B.A....	1895	Brockville.
Odlum, John, M.D..	1880	Woodstock.
Ogilvie, H. G., M.D..	1899	Kingston, Jamaica.
Ogilvie, Nettie, M.D....	1888	Kingston, Jamaica.
O'Hagan, T. F., M.D....	1900	Fort William.
O'Hara, Margaret, M.D. (Medical Missionary)....	1891	Dhar, India.
O'Hara, J. J., M.D....	1898	Alma City, Minn.
Oldham, Edmund, M.D....	1881	Chatsworth.
Oldham, John H., M.D....	1891	Yarker.
Oliver, Alfred S., M.D....	1863	(Deceased.)
Oliver, John K., M.D....	1868	(Deceased.)
Oliver, Marion, M.D. (Medical Missionary)....	1886	Indore, India.
O'Loughlin, Robt. S., B.A.'65; M.A.	1874	New York.
O'Neil, Thomas, M.D....	1888	(Deceased.)
O'Reilly, Anthony, M.D....	1861	(Deceased.)
6O'Reilly, James R., Judge, B.A..	1852	Prescott
O'Reilly, T. J., M.D....	1902	Placentia, Nfld.
O'Rourke, Thos. A., B.A., LL.B..	1895	Trenton.
Orser, T. H., B.A., 1899; M.D....	1902	Glenvale.
O'Shea, James F., M.D..	1881	(Deceased.)

Name.	Date of Graduation.	Address.
O'Shea, James, B.A....	1891	Kingston.
O'Sullivan, John, M.D....	1868	(Deceased.)
*Oxley, Malcolm S., B.A....	1878	Montreal.
Page, Thomas A., M.D....	1883	Brockville.
2Parker, Frank R., B.A....	1887	Owen Sound.
Parker, James, B.A....	1898	Stirling.
Parker, Mabel, B.A....	1895	Stirling.
Parker, Robert, M.D....	1861	Stirling.
Parker, R. D. W., M.D....	1900	Bermuda.
Parkyn, H. A., M.D....	1892	Chicago, Ill.
Parlow, Allen B., M.D....	1894	Iroquois.
Parmalee, George W., B.A....	1889	Quebec.
*Patterson, Andrew, B.A....	1884	Montreal.
2Patterson, Andrew O., M.A....	1897	Carleton Place.
*Patterson, Gilbert C., B.A., 1878; M.A....	1880	Emboro.
Patterson, James A., M.D....	1889	Iron River, Wis.
Patterson, James R., M.D....	1867	Port Elgin.
Patterson, John M., M.D....	1890	Okeowa, Neb.
Patterson, Richard L., M.D....	1885	Buffalo, N. Y.
Patterson, W. J., M.D....	1902	Peterboro.
3, 13Patterson, Wm. J., B.A. '88; M.A....	1895	Carleton Place.
Patterson, W. R. B.A....	1902	Kingston.
Paul, H. E., B.A., 1898; M.D..	1901	Newburgh.
Paul, J. H., M.D....	1898	Jamesville, N. Y.
4, 7Peacock, Edward R., M.A....	1894	Deer Park, Ont.
5, 25, 4, 7Peck, W. W., M.A., 1894; LL.B....	1894	Napanee.
Perault, Julian, M.D....	1857	San Francisco, Cal.
*Perrin, Louis, B.A....	1884	Georgetown.
Petrie, J. A., B.A....	1901	Belleville.
*Phalen, Ronald M., B.A....	1889	Cartwright.
Phelan, Daniel, M.D....	1877	Kingston.
Phelan, Leopold, B.A., M.D....	1890	Ackley, Iowa.
Pilkie, P. J., B.A....	1895	Fort William.
Pike, N. J., M.D....	1898	Saginaw, Mich.
Pirie, Alexander F., M.D....	1887	Cartago, Costa Rica.
Pirie, H. H., B.A....	1890	Cartago, Costa Rica.
Pitblado, Colin, M.D....	1886	(Deceased.)
Pitts, F. E., B.A....	1897	Temiscamingue.
1Plafair, Alfred W., M.A....	1896	Toronto.
Pocock, C. E., B.A....	1902	Hillhurst, Quebec.
*Pollock, Peter M., B.A....	1881	Scotland.
*Pollock, Allen, D.D., Prin. Presby. College....	1876	Halifax.



Name.	Date of Graduation.	Address.
Polson, Susan C., (Rollins), B.A.	1896	Elmvale.
Poole, A. W., B.A.	1899	Chicago, Ill.
Pope, Egerton L., B.A.	1895	Cookshire, Que.
Pope, F. J., M.A.	1891	Kingston.
Pope, Step. D., B.A., '61; LL.D.	1890	Victoria, B. C.
Porteous, C. A., M.D.	1901	Montreal.
Porter, S. E., M.D.	1900	Lindsay.
*Potter, James G., B.A.	1891	Peterboro.
Potter, Levi, M.D.	1870	Enniskillen.
Potter, Samuel, M.D.	1875	(Deceased.)
Potter, Thomas, M.D.	1876	Ottawa.
Powell, George K., B.A.	1891	Toronto.
Powell, W. B., B.A.	1901	Brockville.
Power, J. F., M.A.	1899	Simcoe.
Power, John J., B.A.	1900	Halifax, N. S.
Pratt, William F., M.D.	1888	Bruchnel.
Pratt, Wilton, M.D.	1888	Carleton Place.
Prendergast, A. R., B.A.	1901	Montreal.
Preston, Richard, M.D.	1875	Carleton Place.
Preston, Robert H., M.D.	1864	Ottawa.
Price, Cornelius V., Judge, LL.B.	1863	Kingston.
Price, Edwin, B.A.	1888	Dundas.
Price, Henry H., B.A., 1877; M.D.	1890	Cartago, Costa Rica.
Price, Robinson B., M.D.	1886	Bath.
Pringle, H. S., B.A.	1899	Oak Park, Ill.
*Pringle, John, B.A.	1875	Atlin, B. C.
Pringle, Robert H., B.A.	1882	Brampton.
*Prittie, W. T., B.A.	1897	Kingston.
Proderick, W. S., M.D.	1900	Ottawa.
Purdy, Alvanley N., M.D.	1873	Grand Falls, Mont.
Purdy, Chas. W., M.D., '69; LL.D.	1898	(Deceased.)
Purdy, Victor M., B.A.	1894	Cannington.
Purvis, W., B.A.	1899	Junetown.
Putman, J. H., B.A.	1899	Ottawa.
Rainsbury, W. C., M.D.	1900	Skegby, Notts, Eng.
Rainstead, H.	1887	
Ramsay, Robert, M.D.	1861	(Deceased.)
Ramsay, W., B.A.	1902	Plattsville.
Rand, Silas T., LL.D.		Hantsport, N. S.
Raney, Wesley H., B.A.	1895	Lachute.
Rankin, William H., M.D.	1889	Brooklyn, N. Y.
*Rannie, Alex., B.A.	1898	Roslin.
Ranstead, William, M.D.	1887	Ottawa.
Rathbun, Herbert B., B.A.	1883	(Deceased.)
3*Ratray, James, B.A.	1887	Eganville.
Rawlins, J. W., B.A., 1899; B.Sc.	1901	Copper Cliff.



Name.	Date of Graduation.	Address.
Raymond, C. Nelson, M.D.....	1891	New Rochelle, N. Y.
Rayside, Edith, B.A.....	1896	S. Lancaster.
*Reddon, John A., B.A.....	1889	Glenboro, Assa.
Redmond, Robt. C., B.A., '95; M.D.	1898	Bishop's Mills.
Redmond, W. C., M.D....	1901	Bethel.
Reekie, J. S., M.D....	1902	Sidney, N. S. W.
Reeve, Richard A., M.D., (Dean of Toronto School of Medicine).	1865	Toronto.
Reeve, John L., M.D....	1882	Clinton.
Reeve, Henry H., MD.....	1880	(Deceased.)
Reid, Etta A., (Newlands) M.A..	1892	Kingston.
Reid, J. A., B.Sc....	1902	Annapolis, N. S.
Reid, John D., M.D., M.P....	1890	Cardinal.
Reid, R. M., M.D....	1902	Renfrew.
Reid, S. M., B.A....	1899	Kingston.
Reid, Victoria, B.A....	1900	Kingston.
*Reid, William, D.D....	1876	(Deceased.)
Reid, William D., M.D....	1880	Barre, Vt.
Reid, M. R., M.A....	1897	Napanee.
Reilly, Adrian, M.D....	1862	Welland.
*Renaud, Allen C., B.A....	1864	Montreal.
Reynolds, Helen E., (Ryan), M.D.	1885	Sudbury.
Richardson, Rev. A. W., M.D....	1899	Kingston.
Richardson, E., M.D....	1901	Brockville.
Richardson, William W., B.A....	1893	Winnipeg.
Rigney, Timothy J., B.A....	1895	Kingston.
Ritchie, Geo., B.A., 1878; B.Sc....	1878	Toronto.
38Robertson Alexander, M., M.A.	1896	Leamington.
Robertson, Alexander C., M.D....	1893	Whitney.
Robertson, Donald M., B.A....	1886	Toronto.
Robertson, D. M., B.A....	1899	Shakespeare.
Robertson, John W., M.D....	1888	Westville, N. S.
Robertson, Miles S., B.A....	1884	Violet.
Robertson, Straun G., B.A....	1891	Hopewell, N. S.
Robinson, Andrew, M.D....	1889	Kalamazoo, Mich.
Robinson, Andrew, M.D....	1895	Fort Wayne, Ind.
Robinson, Edward B., M.D..	1891	Rodney, Iowa.
Robinson, Robert P., M.D....	1888	Ottawa.
Robinson, Robert R., M.D....	1892	Klondyke, B. C.
Roche, William P., M.D....	1860	(Deceased.)
Rockwell, Albert, M.D....	1868	Lewiston, Idaho.
Rockwell, Ashbel S., M.D....	1872	Rochester, N. Y.
Rodgers, James C., B.A....	1894	Bradford, Ont.
1Rogers, C. S. G., M.A....	1901	Niagara Falls.
Rogers, R. Vashon, B.A.'61; LL.D.	1895	Kingston.
Rogers, David H., M.D....	1881	Gananoque.

Name.	Date of Graduation.	Address.
28Rogers, W. C., M.A.... .	1899	Linden Valley.
*Rollins, James, B.A.... .	1895	Elmvale.
Rollo, James, B.A.... .	1852	(Deceased.)
*Romanes, George, LL.D.... .	1866	(Deceased.)
Roose, E. C. Robson, LL.D.... .	1889	London, Eng.
Rose, George R., B.A., '56; M.A...	1860	(Deceased.)
*Rose, G. W., B.A.... .	1898	Camilla.
Ross, Alex. H. D., B.A., '88; M.A.	1889	Tilsonburg.
Ross, Arthur E., B.A., 1892; M.D..	1897	Kingston.
*Ross, Donald, B.A., 1860; M.A., 1862; B.D., (Professor, Queen's University) .. .	1863	Kingston.
Ross, George S. B.A.... .	1856	
*Ross, James, D.D.... .	1864	(Deceased.)
*Ross, James, B.A., 1878; M.A., 1881; B.D., 1881; D.D., (Pro- fessor, Presbyterian College).	1898	Montreal.
Ross, John Reid, B.A.... .	1862	
Ross, Thomas K., M.D.... .	1863	Fredonia, N. Y.
*Ross, Walter, B.A., 1859; M.A...	1862	(Deceased.)
Ross, William A., Judge, B.A.... .	1855	Ottawa.
Ross, W. J., M.D.. . . . .	1900	Martintown.
Rothwell, William, B.A.... .	1881	
Rourke, Francis, M.D.... .	1872	Bay City, Mich.
Row, R. K., B.A.... .	1897	Kingston.
Rowse, Mark R., B.A.... .	1870	Bath.
Roy, E., M.D.... .	1901	Kingston.
Roy, Henry, M.D.... .	1885	Chisholm.
Russell, Donald G., M.D.... .	1885	Spokane, Wash.
Russell, F. Howard, B.A.... .	1889	Victoria, B. C.
Russell, Jean McG., B.A.... .	1894	Arnprior.
Russell, Margaret, B.A.... .	1897	Ottawa.
Russell, W. J., B.A.... .	1900	Pakenham.
Russell, Samuel, B.A.... .	1882	Deseronto.
Ruttan, Emily, B.A.... .	1902	Kingston.
Ruttan, Franklin S., M.D.... .	1893	Yarker.
Ruttan, Joseph B., M.D.... .	1863	Wellington.
Rutherford, David B., M.D.... .	1882	(Deceased.)
Rutherford, James, M.D.... .	1870	Orono.
Ryan, Clara, M.D.... .	1893	Sherman, Texas.
Ryan, Edward, B.A., 1886; M.D., (Professor, Queen's Univers.)	1889	Kingston.
Ryan, Michael D., M.D.... .	1891	Saginaw, Mich.
Ryerson, S. Edward, M.A.... .	1895	(Deceased.)
St. Remy, C. de, M.D.... .	1902	Kingston.
Sadler, G. S., M.D.... .	1899	Combermere.

Name.	Date of Graduation.	Address.
Sands, Ernest, M.D....	1889	(Deceased.)
Sands, Wm. W., M.D....	1894	Kingston.
Saunders, Herbert J., M.D....	1869	(Deceased.)
Saunders, Lawrence, M.D....	1868	(Deceased.)
Saunders, William, F.R.S.C., LL.D.	1896	Ottawa.
14Saunders, W. J., M.A....	1900	Kingston.
Saunders, W. R., B.A....	1899	Waterford.
Sayers, Alexander, M.D....	1870	(Deceased.)
Scales, Thomas, B.A., 1878; M.D..	1887	(Deceased.)
Schultz, Hon. Jno. C., M.D., LL.D.	1894	(Deceased.)
Scott, A. B.A....	1899	Glenmorris.
*Scott, Alexander H., B.A., '75; M.A.	1878	Perth.
8Scott, Colin A., B.A....	1885	Chicago.
Scott, J. M., B.A....	1897	Brockville.
*Scott, Marcus, B.A....	1893	Detroit.
Scott, Patrick, J., M.D....	1888	Southampton.
Scott, Thomas B., B.A., 1875; M. D., (Medical Missionary)....	1892	Jaffna, Ceylon.
Scott, Thomas R., B.A....	1888	Oxbow, N. W. T.
Scott, Thomas S., B.A....	1894	Glenmorris.
Scott, T. S., B.A., B.Sc....	1897	Galt.
Scott, Wm. J., M.D....	1891	Lanark.
Scott, William S., M.D....	1855	(Deceased.)
Scott, W. B., M.D....	1897	Crystal, N. Dak.
Scovill, Simmons S. S. M.D....	1877	Rat Portage.
Scribner, J. F., M.D....	1898	Ottawa.
Seager, James, M.D....	1894	Ottawa.
Searls, Abraham W., M.D....	1864	(Deceased.)
Seath, John, B.A., LL.D..	1902	Toronto.
Seaton, E. T., B.A....	1897	Caledonia.
*Sedgwick, Robert, D.D....	1878	(Deceased.)
Sexton, J. H., M.A....	1902	Kingston.
Shannon, John R., B.A., '85; M.D..	1890	New York.
Shannon, Lewis W., B.A....	1877	Kingston.
Shannon, Robt., W., B.A., '75; M.A.	1880	Ottawa.
*Sharp, John, M.A....	1892	Thornloe, Ont.
Shaw, A., M.D....	1899	Philadelphia, Pa.
Shaw, John M., B.A., 1883; M.D..	1886	Lansdowne.
Shaw, Robert, B.A....	1873	(Deceased.)
Sheffield, E., B.A....	1900	Toronto.
Shenick, Adeline, B.Sc., B.A....	1891	Ottawa.
*Sheraton, James P., D.D., (Presi- dent Wycliffe College)....	1882	Toronto.
2, 19Shibley, G. R., M.A....	1901	Kingston.
6Shibley, Henry T., B.A....	1881	(Deceased.)
Shibley, Jennie M., B.A....	1900	Harrowsmith.

Name.	Date of Graduation.	Address.
Shibley, Laura, B.A....	1890	B. C.
Shier, James, B.A....	1862	
Shirley, Joseph W., M.D....	1863	(Deceased.)
8, 11Shorey, Edm. C., B.A.'86; M.A.	1887	Honolulu, H. I.
5Shortell, D. H., M.A....	1898	Washburn.
4, 13, 22Shortt, Adam, B.A., '83; M. A. (Professor, Queen's Univ).	1884	Kingston.
7, 17Shortt, J. S., B.A., '94; M.A.	1897	Calgary, N. W. T.
Shurie, Josiah S., B.A....	1889	Toronto.
*Sieveright, James, B.A....	1855	Lion's Head.
Sieveright, James A., M.D....	1870	(Deceased.)
8Sills, Wm. R., M.A....	1895	Kingston.
Silver, L. P., B.Sc....	1902	Kingston.
Simpson, James, B.A....	1864	Bay City, Mich.
Simpson, W. J., M.D....	1899	Kingston.
Sinclair, Anna E., B.A....	1901	Ottawa.
Sinclair, H. H., B.A....	1899	Lanark.
4*Sinclair, John A., M.A....	1890	Prince Albert.
*Sinclair, Robert, C. H., B.A....	1888	Fenelon Falls.
Singleton, A. H., B.A....	1901	Newboro.
1, 2, 19Skelton, O., M.A....	1899	Cornwall.
Skimin, Nellie St. G., M.D....	1892	Hamilton.
Skinner, Henry, M.D....	1862	(Deceased.)
Skinner, John S., B.A....	1883	Halifax, N. S.
Slack, E. B., B.A....	1902	Toronto.
Smart, V. I., B.A....	1898	Riverside, Cal.
Smeeton, W. F., B.Sc....	1900	Oakville.
Smellie, Donald McK., M.D....	1888	(Deceased.)
*Smellie, George, D.D....	1885	(Deceased.)
Smellie, James F., B.A....	1890	Ottawa.
Smith, A. L., M.D....	1902	Kingston.
Smith, Alexander L., B.A....	1883	Alexandria.
Smith, Annie, B.A....	1894	Walkerville.
Smith, A. G., M.D....	1898	Deseronto.
Smith, D. T., M.D....	1901	Ottawa.
Smith-Shortt, Elizabeth M.D....	1884	Kingston.
Smith, Frederick B., M.D....	1886	Watertown, N. Y.
Smith, George, M.D....	1858	(Deceased.)
Smith, George H. W., M.D..	1892	Sydney, N. S. W.
Smith, Gordon J., B.A....	1886	Paris.
Smith, J. E., B.A....	1901	Cookstown.
*Smith, James F., M.D., (Medical Missionary)....	1888	Mhow, Central India.
*Smith, James C., D.D., B.A., 1861; M.A., 1863; B.D....	1880	(Deceased.)
Smith, J. C., B.A....	1898	Kingston.

Name.	Date of Graduation.	Address.
Smith, James H., M.A....	1893	Ridgetown.
Smith John R., M.D....	1863	(Deceased.)
Smith, Ralph G., M.D....	1893	Oakland, Iowa.
Smith, S. M., M.D....	1900	South Milwaukee, Wis.
Smith, Violet B., B.A....	1897	Boston.
Smyth, Robert A., M.D....	1883	(Deceased.)
*Smyth, William J., B.A....	1881	(Deceased.)
Smythe, Geo. E., B.A....	1897	Kingston.
*Snell, G. W., B.A....	1899	West Brome, Que.
3Snell, Joseph, M.A....	1890	Warton.
Snider, Elias T., M.D....	1889	Inwood.
Snider, Samuel H., M.D....	1881	Carman, Man.
Snook, Marcus S., B.A....	1881	(Deceased.)
Snowden, H. A., B.A....	1902	Tweed.
*Snowdon, John M., B.A....	1885	Ottawa.
Snyder, H. Adell, M.A....	1895	Perth.
Snyder, T., M.D....	1899	Niagara Falls, N. Y.
Solandt, D. M., B.A....	1900	Enosburg Falls, Vt.
Somerville, Jas. A., B.A., '58; M.D.	1866	(Deceased.)
*Somerville, James H., B.A....	1881	Norwood.
Spafford, H. W., M.D....	1855	(Deceased.)
24Spankie, Wm., B.A., '62; M.D..	1885	Wolfe Island.
Spankie, James E., M.D....	1891	Halcyon Hot Sp'gs, B.C.
Sparham, George S., M.D....	1859	(Deceased.)
Sparks, J. F., B.A....	1901	Kingston.
Spear, Hugh, M.D....	1873	Toronto.
*Spence, Alexander, D.D....	1864	(Deceased.)
Spencer. Henry, M.D....	1862	(Deceased.)
Spooner, Armon C., B.A....	1896	Latimer.
Spooner, George D., M.D....	1860	(Deceased.)
Spooner, Hiram R., M.D....	1869	(Deceased.)
Spooner, Margaret M., B.A....	1886	Cornwall.
Sproat, Alexander, B.A....	1853	(Deceased.)
*Sproul, Nathaniel J., B.A....	1891	Manchester, N. Y.
Squire, George H., B.A....	1893	Kingston.
Spuire, Wm. W., B.A., '54; M.A..	1864	(Deceased.)
Stanley, Rt.Hon. Earl Derby, LL.D	1889	England.
Stanley, J. N., M.A....	1901	Port Colborne.
29Staples, Louis, M.A....	1895	
*Steele, Jacob, B.A., 1883; B.D....	1889	Powassam.
Stevens, F. G., B.Sc., 1900; M.E..	1901	Rossland, B. C.
Stevens, Nathaniel T., M.D....	1892	Clifton, Ill.
Stevenson, Alexander J., B.A....	1882	Minden.
Stevenson, John A., M.D....	1894	Chicago.
*Stevenson, John F., D.D....	1880	(Deceased.)
Stewart, Alexander, M.D....	1889	St. Thomas, N. D.

Name.	Date of Graduation.	Address.
Stewart, Alexander J., M.D.....	1869	Orillia.
Stewart, Daniel W., B.A.....	1884	Renfrew.
Stewart, Ernest J., B.A.....	1896	Hamilton.
Stewart, George G., M.D....	1895	Elmside, Que.
6Stewart, James, M.D....	1894	(Deceased.)
8Stewart, James A., M.D....	1892	St. Thomas.
Stewart, John M., M.D....	1882	Chesley.
Stewart, Margaret J., B.A.....	1902	Renfrew.
Stewart, Martha G., B.A.....	1902	Laguerre, Que.
3Stewart, William, B.A.....	1879	Toronto.
Stewart, A. E., M.D....	1898	Chicago, Ill.
Stilwell, A. J., B.Sc....	1902	Bracebridge.
Stirling, James A., M.D....	1885	St. Thomas.
Stirling, John E., M.D....	1884	Detroit, Mich.
Storms, Douglas G., M.D....	1886	Hamilton.
34Story, Selina G., M.A....	1901	Almonte.
Stothers, R., B.A.....	1899	Ottawa.
Stowell, Olmsby O., M.D....	1869	Watertown.
*Strachan, Daniel, B.A.....	1889	Brockville.
Strange, John, B.A., 1877; LL.B..	1883	Kingston.
Stratton, C. M., M.D.....	1902	Kingston.
*Stuart, James G., B.A.....	1876	London.
Stuart, Irwin, B.A.....	1870	(Deceased.)
Stuart, Wm. A., B.A., 1888; M.D..	1891	Clarenceville, Que.
Stubbs, S. J., B.A.....	1899	Smith's Falls.
*Sturgeon, Robert J., B.A..	1887	Burk's Falls.
Sullivan, D. V., B.A., 1890; M.D..	1892	(Deceased.)
Sullivan, Hon. Michael, M.D. (Pro- fessor, Queen's University)...	1858	Kingston.
Sullivan, Thomas, M.D....	1863	(Deceased.)
Sullivan, William, B.A.....	1862	Kingston.
Supple, J. A., B.A.....	1899	Pembroke.
Sutherland, E., B.Sc....	1902	Belleville.
Sutherland, J. C., B.A.....	1901	Richmond, Que.
Sutherland, Robert, B.A.....	1852	(Deceased.)
Sweetland, John, M.D....	1858	Ottawa.
Switzer, Wilson I., M.D....	1862	(Deceased.)
*Symonds, H., D.D....	1901	Port Hope.
Symington, Thomas J., M.D.....	1881	Camalachie.
Tandy, H., B.A.....	1900	Kingston.
Tandy, W. R., M.A....	1899	Kingston.
Tarbell, Horace S., B.A.....	1862	
Tassie, William, LL.D....	1871	(Deceased.)
Taylor, James, M.D....	1864	(Deceased.)
Taylor, John A., B.A.....	1892	Dutton.
Taylor, William F., M.D....	1881	Brisbane, Queensland.



Name.	Date of Graduation.	Address.
Teepell, Etson W., M.D....	1896	(Deceased.)
Theal, George McC., LL.D....	1895	Cape Town, Africa.
Thibodo, Augustus J., B.A., 1851; M.A....	1854	Niagara Falls, N. Y.
Thibodo, Francis H., M.D....	1895	Prairie City, Oregon.
Thibodo, Oliver, M.D....	1857	Los Angeles, Cal.
Thibodo, Robert, B.A., '62; M.D..	1862	(Deceased.)
Thibodo, Wm. B., B.A., '62; M.A..	1865	Rat Portage.
Thirkell, William G., M.D....	1861	Sodus, N. Y.
Thompson, A. M., M.A....	1902	Sarnia.
Thompson, E. J., M.D....	1901	Kingston.
*Thompson, George, B.A....	1863	Scotland.
*Thompson, George M., B.A....	1878	Glasgow, Scotland.
Thompson, Hiram B., M.D....	1888	Barrie.
Thompson, John, B.A....	1855	(Deceased.)
*Thompson, Jno. R., B.A.'65; M.A.	1868	(Deceased.)
Thompson, Maggie J., B.A....	1894	Almonte.
Thompson, P. M., M.A....	1899	Hamilton.
Thompson, Thomas J., M.A....	1895	Belleville.
Thompson, William D., M.D..	1892	Brooklyn, N. Y.
Thompson, William McC., B.A..	1888	Dunbar, N. S.
Thorburn, John, LL.D....	1880	Ottawa.
Thorne, Stephen H., M.D....	1887	Bobcaygeon.
Thorne, James, B.A....	1897	Ottawa.
Thornton, Thomas H., M.D....	1870	Consecon.
Thornton, William H., M.D....	1864	(Deceased.)
Tilman, Herbert A., M.D....	1895	Kingston, Jamaica.
Tilman, Harry G., M.D....	1889	Kingston, Jamaica.
Tinkess, A. L., M.D....	1898	Plessis, N. Y.
Todd, Alpheus, C.M.G., LL.D....	1881	(Deceased.)
Todd, Samuel G., M.D....	1890	Meshawaka, Ind.
Townsend, Harland W., B.A....	1887	(Deceased.)
Tracey, Robert, M.D....	1862	Belleville.
Tracev, Thomas B., M.D....	1865	(Deceased.)
Trousdale, James D., M.D....	1860	(Deceased.)
Tudhope, M.B., B.A....	1897	Orillia.
Turnbull, Agnes M. (Givens), M.D.	1892	Kingston.
*Turnbull, James H., M.A....	1896	Bowmanville.
Turner, John B., B.A....	1889	Hamilton.
Turner, Adelaide, M.D....	1897	New York.
Tuttle, Henry E., M.D....	1892	Chases' Mills, N. Y.
Tuttle, Leslie, M.D....	1875	Tweed.
Tyner, W. G., B.A., 1898; M.D..	1901	Kingston.
*Ure, Robert, D.D....	1876	Goderich.
Valleau, Archibald J., M.D....	1891	Wolcott, Vt.
Valleau, George Z., M.D....	1867	



Name.	Date of Graduation.	Address.
Van Allen, John R., M.D....	1871	Denver, Col.
Van Vlack, Gilbert J., M.D....	1869	(Deceased.)
Vercoe, F. H., B.A....	1900	
Volume, D. A., B.A....	1898	Kingston.
Waddell, W. H., M.D....	1880	North Augusta.
Wade, Robert J., M.D....	1888	Brighton.
Wade, Wm. R., M.D....	1888	(Deceased.)
Wafer, Francis M., M.D....	1867	(Deceased.)
Wager, Ephraim N., M.D....	1897	Hayburn.
Waldren, H. M., M.D....	1898	Dayton, N. Dak.
Walkem, Wm. W., M.D....	1873	Nanaimo, B. C.
Walkem, R. K., B.A....	1902	Kingston.
Walker, Allen H., M.D....	1867	Toronto.
Walker, Andrew, B.A....	1901	Winnipeg, Man.
Walker, Archibald D., M.D....	1888	Riverside, Cal.
Walker, C. Wesley, B.A....	1902	Kingston.
Walker, H., M.D....	1897	Riverside, Cal.
Walker, Hattie A., M.D....	1890	(Deceased.)
Walker, H., B.A....	1902	Metcalf.
*Walker, James B.A....	1894	Crumpsall, Eng.
Walker, Stanley, M.D....	1889	Chebanse, Ill.
14, 9Walker, Thos. L., M.A., (Pro- fessor of Mineralogy and Pe- trography, University of Tor.)	1890	Toronto.
*Walkinshaw, Wm., B.A.'98; M.D.	1893	Stillwell, Ind.
Walks, R. H., B.A....	1900	Brooklin, Ont.
*Wallace, Alexander, B.A....	1847	(Deceased.)
Wallace, David, M.D....	1881	Metcalf, Ont.
2, 17Wallace, Jas., M.A., '98; B.D..	1901	Renfrew.
Wallbridge, Asa F., B.A....	1854	Newcastle.
Ward, G. C. Tremaine, M.D....	1879	Napanee.
Wardlaw, James S., M.D....	1888	Galt.
*Wardrobe, Thomas, D.D....	1878	Guelph.
Warner, Albert F., M.D....	1887	Napanee.
Warren, F. R. H., B.A....	1900	Balderson.
Warren, L. A. H., M.A....	1902	Balderson.
Wartman, Philander G., M.D....	1864	(Deceased.)
Waters, John F., B.A....	1884	Ottawa.
Watson, Alice R....	1902	Kingston.
Watson, Andrew, B.A....	1861	Lucknow.
Watson, Charles V., M.D....	1863	Wellington.
*Watson, David, B.A., 1850; M.A., 1852; D.D....	1886	Beaverton.
Watson, Donald, B.A....	1851	(Deceased.)
Watson, E. C., M.A., 1895; M.D..	1899	Kingston.
Watson, James S., B.A....	1895	Minnedosa.

Name.	Date of Graduation.	Address.
*Watson, Peter, B.A....	1852	Williamstown.
Watts, Ezra J., M.D....	1886	Moose Creek, Man.
Watts, J. R., B.A....	1901	Shelburne, Que.
Watts, Thomas E., M.D....	1890	Natural Bridge, N. Y.
Way, Hon. Sam'l J., LL.D.(Lieut.- Gov. and Chief Justice, South Australia)....	1895	Adelaide, South Aus.
Weatherhead, G. F., B.A....	1898	Brockville.
Webster, B. E., B.A., 1895, M.D..	1896	Kingston.
Webster, Charles R., B.A....	1891	Kingston.
Webster, James, B.A....	1857	(Deceased.)
Webster, George R., B.A....	1875	(Deceased.)
Webster, W. J., M.D....	1884	White Lake, N. D.
Weekes, W. J. M.D....	1865	Ottawa.
Weir, Janet, M.D....	1891	Merrickville.
Weir, William, M.D....	1861	(Deceased.)
Wells, James Walter, B.Sc....	1898	Belleville.
Wellwood, J. A., B.A....	1901	Fordyce.
Westlake, Henry W., B.A....	1882	Exeter.
Wheeler, James W., M.D....	1892	Cornwall.
White, Albert N., M.D....	1885	Denver, Col.
White, James W., M.D....	1891	Chicago, Ill.
White, Joseph F., B.A....	1877	Shanty Bay, Ont.
White, Lizzie R. (Leslie), B.A....	1895	Kingston.
Whiting, C. C., M.A....	1902	Toledo.
Whitney, Arthur W., M.D....	1888	St. Paul, Minn.
*Whiteman, Richard, B.A....	1886	Port Perry.
Whitteker, Walter C., M.D....	1895	Avonmore.
Whyte, William M., B.A....	1896	Pakenham.
Wight, L. S., B.A....	1901	Deseronto.
*Wilkie, William D., B.A....	1891	Minto, Dakota.
Williams, Herbert S., M.D....	1884	Mount Vernon, Dak.
Williams, Hugh G., M.D....	1894	Vancouver, B. C.
Williams, H. Sophia, B.A....	1899	Ottawa.
Williamson, A. R. B., B.A., 1895; M.A., 1896. M.D....	1899	Kingston.
Williamson, E. J., B.A., '98; M.A.	1900	Kingston.
Williamson, G. H., B.A....	1899	Kingston.
Williamson, H. J., B.A....	1901	Kingston.
*Wills, Michael, LL.D....	1861	(Deceased.)
Wilmer, G. H., B.A....	1888	Rockspring.
Wilson, Arthur C., M.D....	1891	Perth.
Wilson, Caroline L. M., B.A....	1890	Kingston.
Wilson, Charles J. C., M.D....	1869	Montreal.
1Wilson, Henry L., B.A., '87; M.A.	1888	Ithaca, N. Y.
Wilson, Jessie A., B.A....	1902	Gananoque.

Name.	Date of Graduation.	Address.
Wilson, John A., M.D....	1863	(Deceased.)
Wilson, J. H., B.A....	1900	Smith's Falls.
Wilson, J. L., B.A....	1901	Attwood.
*Wilson, Matthew H., B.A....	1895	Snake River.
6Wilson, R. A., B.A. '01; M.A. ...	1902	Renfrew.
Wilson, Thomas, B.A., 1877; M.D.	1880	Tara.
Wilson, T. A., M.D....	1900	Kamloops B. C.
Wilson, T. R., B.A....	1897	Marathon.
Wilson, W. A., B.A....	1897	Cannifton.
2Windel, Henry C., M.A.'96; M.D.	1902	Pontypool.
Witheril, E. R., B.A....	1899	Athens.
9Wood, Isaac, B.A., 1884; M.A., 1891; M.D., (Profes'r, Queen's University)....	1892	Kingston.
Woods, S. A., B.A....	1898	Richmond.
Wright, E. A., B.A....	1902	Renfrew.
Wright, Edward W., M.D....	1886	Brooklyn.
Wright, H. Mabel, B.A....	1901	Renfrew.
*Wright, John J., B.A....	1885	Lyn.
Wright, Josephine, B.A....	1892	Arthur.
Wright, Thomas A., M.D....	1888	Russell, Man.
Wylie, James, B.A....	1864	(Deceased.)
Yates, Horatio, M.D....	1863	(Deceased.)
Yates, Octavius, M.D....	1856	(Deceased.)
Yates, Daintry B., B.A....	1898	Kingston.
*Yeomans, Geo. A., B.A....	1863	Deseronto.
Yeomans, Horace P., B.A.'60; M.D.	1863	(Deceased.)
Young, Alexander, B.A....	1895	Blakeney.
Young, Colin G., B.A....	1893	Russeltown, Que.
Young, Daniel, M.D....	1862	Adolphustown.
Young, David, M.D....	1871	Lower Fort Garry, Man.
Young, Frederick M., B.A....	1886	Nanaimo.
Young, George P. LL.D....	1882	(Deceased.)
Young, Henry E., B.A....	1883	Chicago.
*Young, John, B.A., 1882; M.A...	1884	Hamilton.
Young, J. M., B.A....	1902.	Renfrew.
*Young, Robert, B.A....	1890	Pakenham.
Young, Ward, B.A., 1896; M.D...	1898	South Framingham, Mas.
Young, Sir Wm., Chief Jus., LL.D.	1881	(Deceased.)
Young, William A., M.D....	1894	Westfield, Vt.
Young, William J., M.D....	1883	(Deceased.)
Young, M. R., B.A., 1897; M.D...	1901	Millsville, N. S.
Yourex, John McGill, M.D....	1876	Lonsdale.

ALUMNI.

The Registrar will be much obliged for notice of additions or corrections to this list.

Name.	Date of First Registration.	Address.
Abrey, James.. . . . .	1893	Monkton.
Allen, Andrew.... . . . .	1884	Balderson's Corners.
*Allen, William F.... . . . .	1882	Denver, Col.
Allen, Mary.... . . . .	1890	Kingston.
*Andrew, Joseph .. . . . .	1879	Margaret, Man.
Argue, Andrew W.... . . . .	1888	Stittsville.
Back, W. G....*..... . . . .	1891	Portage du Fort.
*Bailie, Robert.... . . . .	1889	(Deceased.)
Bain, Wm. R.... . . . .	1858	Montreal.
*Ball, William Macpherson S....	1842	(Deceased.)
*Barr, John.... . . . .	1857	(Deceased.)
Barr, Isabel.... . . . .	1890	Hamilton.
Bamford, Frederick J... . . . .	1876	Winnipeg.
Bawden, J. R.... . . . .	1855	Kingston.
*Bennett, James, B.A.... . . . .	1881	L'Orignal.
Bentley, Carrie L., (Scott) ....	1889	Toronto.
Bertram, Thomas.... . . . .	1880	Dundas.
Best, B. W.... . . . .	1889	Toronto.
Bethune, Alexander.... . . . .	1886	
Bethune, James, Q.C.... . . . .	1856	(Deceased.)
Bethune, William S.... . . . .	1879	Wingham.
*Black, William, B.A.... . . . .	1889	Nelson, Man.
Booth, Jackson C.... . . . .	1882	Ottawa.
Booth, John F.... . . . .	1883	Ottawa.
*Borthwick, H. J.... . . . .	1855	Morden, Man.
Boyle, Thomas.... . . . .	1884	Gananoque.
Bradbury, Emily.... . . . .	1892	Gananoque.
Bristol, Emily F.... . . . .	1886	Napanee.
*Brokenshire, William H.... . . . .	1885	
Brownell, James E.... . . . .	1877	Avonmore.
Bruce, David A. J.... . . . .	1886	
Bruce, Edward W.... . . . .	1886	Toronto.
Burger, Charles M.... . . . .	1886	Hudson, Que.
Burrows, Annie M.... . . . .	1889	Kingston.
Burt, Ellen A. A.... . . . .	1890	Caldwell.
*Buyers, Henry.... . . . .	1848	(Deceased.)
Callaghan, Etta.... . . . .	1888	Kingston.
Calvin, H. A.... . . . .	1868	Garden Island.
*Camelon, David.... . . . .	1853	(Deceased.)
Camelon, John M.... . . . .	1885	Chicago.
Cameron, Colin, K. O.... . . . .	1889	Iroquois.

Name.	Date of First Registration.	Address.
Cameron, Donald....	1888	(Deceased.)
Cameron, A. H., B.A....	1869	Napinka, Man.
Cameron, John S....	1889	Wellington.
*Cameron, Hugh....	1856	(Deceased.)
*Cameron, J. J., M.A....	1871	Athens.
*Campbell, Charles A....	1887	Lakefield.
Campbell, John R....	1879	Wingham.
Cargill, Henry....	1856	Cargill.
*Carmichael, James, B.A....	1858	(Deceased.)
Carson, Joseph T....	1891	(Deceased.)
Cartwright, Madeline L. (Matheson)	1889	Kingston.
Chambers, John N....	1875	Woodstock.
*Chambers, W. W....	1871	Erzeroum, Turkey.
Clapp, David P....	1873	Harrison.
Clothier, James O....	1890	Kemptville.
Clune, Ella....	1889	Warkworth.
Coleman, W. W....	1886	Seeley's Bay.
Cook, William....	1858	Quebec.
*Connery, D. G. S., M.A....	1890	Toronto.
Corbett, Charles H....	1865	Kingston.
*Crawford, Angus....	1869	
Creegan, Alfred H....	1889	Kingston.
*Currie, E. C....	1890	Delhi.
Curtis, Henry H....	1887	Montreal.
Day, Lewis J....	1892	Cataraqui.
Dickson, Edwin H....	1867	Waco, Texas.
*Dodds, James A....	1886	Yacatecas, Mex.
*Doudiet, C. A....	1866	Buckingham, Que.
Douglas, John J....	1881	
*Dow, James....	1882	
Dresser, John A....	1889	Richmond, Que.
Drinnan, John K....	1887	Medicine Hat, Assa.
Drummond, Robert J....	1855	Perth.
Duff, John M....	1875	Guelph.
Duff, John....	1850	Kingston.
*Dunning, Harry N....	1883	Watertown, N. Y.
Elmore, Minor M....	1875	(Deceased.)
Emmons, John....	1887	Shannonville.
*England, Luther M....	1890	
Farnden, Hunter R....	1842	
Farrell, Jennie (Dyde)....	1883	Kingston.
*Ferguson, John, B.A....	1858	Maple Valley, Man.
*Ferguson, Mellis U....	1889	Kingston.
Flanigan, John....	1858	Chicago.
Folger, Marion....	1884	(Deceased.)
*Forest, David....	1879	Walton, Ont.
*Fraser, John....	1888	North Shore, C. B.

Name.	First	Date of Registration.	Address.
Fraser, Nutting S....	1881	St. John's, Nfld.	
Fraser, Francis H....	1883	(Deceased.)	
Gahan, Percy A....	1886	Windfall.	
Galbraith, Malcolm C....	1853	Bowmanville.	
*Gallup, E. C....	1888	Mohawk.	
Garret, William R....	1884		
*Gerrior, John P....	1884		
Gibson, Sara....	1888	Belleville.	
Gillies, John A....	1889	Braeside.	
Goodfellow, Joseph....	1891	Parham.	
*Goodwill, John....	1858	Charlottetown, P. E. I.	
Goodwin, Antoinette E....	1884	Studley, Halifax.	
Goodwin, Ernest P....	1884	Cape Tormentine, N. B.	
Gordon, Robert A....	1882		
*Grant, James A....	1879	Richmond Hill.	
*Grant, D. R....	1889	Pincher Creek, Alta.	
*Gray, James M....	1861	Selkirk, Man.	
Greaves, Jennie H....	1880	Kingston.	
Griffith, M. A....	1893	Balder, Man.	
Hallett, William J....	1890	Sorrie.	
Hamilton, Clark....	1848	Kingston.	
Hamilton, John Judge....	1844	Milton.	
Hamilton, Max G....	1882	Hudson Bay Co.	
Hamilton, William....	1858		
Harkness, Jefferson D....	1888	Kingston.	
Head, John....	1884	(Deceased.)	
Hendry, Thomas....	1868	California.	
*Herald, Charles L....	1880		
Hill, Annie G....	1890	Riviere du Loup.	
Hobart, S. W....	1879	Toronto.	
Hodgins, James C....	1889	Toronto.	
Hooper, John G....	1879	Teeswater.	
Hooper, Vere G....	1880		
Honeywell, Ira E....	1890	Ottawa.	
Houston, Martha, (Campbell)....	1889	Kingston.	
Houston, Robert C....	1890	Toronto.	
*Hyland, David....	1881	(Deceased.)	
Ireland, Alexander H....	1866	Toronto.	
Ireland, James O....	1850	Toronto.	
Ireland, William....	1850	Chatham.	
Irvine, Richard W....	1878	Deseronto.	
Irving, Lilla B (Farrell)....	1884	Utica, N. Y.	
*Jack, Hugh....	1889		
Jackson, Alfred R....	1889	S. Vancouver, B. C.	
Jackson, Nelson....	1883		
Johnston, William....	1878	McLeod, N. W. T.	
Jones, Alfred W....	1888	Kingston.	



Name.	Date of First Registration.	Address.
Jones, Charles P.....	1887	Kingston.
Kean, Isabel H.....	1890	Orillia.
*Kellock, David.....	1878	Richmond, Que.
Kemp, John W.....	1888	Carp.
King, Mary A. (Marquis)....	1888	Newburgh, N. Y.
Kirkwood, Daniel H.....	1883	
*Laing, Douglass.....	1899	Kingston.
*Lamont, Hugh, D.D.....	1861	(Deceased.)
Lane, Morgan.....	1863	Clayton, Ont.
*Legere, Prosper L.....	1856	(Deceased.)
*Madill, James C.....	1889	Little Britain, N. W.
Malloy, William.....	1865	
Maxwell, John.....	1887	Alton.
Menzies, A. D.....	1888	Kaslo, B. C.
*Miller, David.....	1884	Winkley, Man.
Mills, James McV.....	1884	Elsinore.
Minnes, James A.....	1885	Kingston.
Moir, Robert.....	1878	
Motherill, James W.....	1873	(Deceased.)
Morton, Thomas P.....	1890	Ottawa.
*Muckleston, W. J.....	1864	Perth.
*Mullin, Elias.....	1861	Toronto.
*Mullan, J. B.....	1856	Fergus.
*Mullan, J. S.....	1854	Stanley, N. B.
Mulock, William R.....	1865	Winnipeg.
Munro, Donald G.....	1880	Port Douglas, Man.
Murray, Thomas N.....	1890	Orillia.
Macallister, Lachlin, M.D.....	1861	Duntroon.
Macdonald, H. J.....	1865	Winnipeg.
Macnee, Walter H.....	1879	Kingston.
McArthur, Bessie.....	1888	Kingston.
McArthur, Charles.....	1879	
*McArthur, Dugald O.....	1890	Melrose.
McArthur, John M.....	1878	Chicago.
McDonnell, Allen.....	1885	
*McDonald, Donald D.....	1885	Caledonia.
McDougall, Archibald J.....	1891	Newburgh, N. Y.
McDonald, Belle, (Boyd)....	1890	Kingston.
McDonald, William.....		(Deceased.)
*McEachern, Charles.....	1873	Inverness, Scotland.
McEachern, Duncan.....	1860	North Williamsburg.
McEwen, Thomas.....	1883	
*McFayden, Allen L., B.A.....	1887	Mount Albert.
McGeach, William, M.D.....	1861	Fingal.
*McGillivray, Alexander.....	1871	Toronto.
McGregor, Alexander.....	1862	Williamstown.
McIntosh, Hugh.....	1876	



Name.	Date of First Registration.	Address.
McIntyre, Andrew B....	1887	(Deceased.)
McIntyre, A. B....	1891	
*McIntyre, C. E....	1863	Oshawa.
McKay, Daniel C....	1889	Kingston.
*McKay, Norman T. C....	1883	Toronto.
McKenzie, John J....		
*McKinnon, John....	1842	(Deceased.)
*McLarin, Archibald....	1878	Springfield, Man.
McLean, Archibald B....	1865	Smith's Falls.
McLean, Donald A....	1877	
McLean, John....	1874	(Deceased.)
McLennan, Duncan L....	1887	Kincardine.
MacLennan, John D....	1889	(Deceased.)
McLennan, Neil K....	1888	Middle River, C. B.
*McLeod, Alexander K....		Brighton.
McLeod, Charles L....	1889	
*McMillan, George, B.A....	1875	Kentville, N. S.
McNab, Frank....	1880	Kingston.
McNaughton, Alexander....	1888	Manitoba.
McNaughton, Alexander K....	1887	Marcellus, N. Y.
*McNeil, John....	1880	Cowal.
McNutt, George A....	1878	
*McPherson, Lachlin....	1842	(Deceased.)
McRae Philip K....	1888	North River, C. B.
McRossie, Allen....	1880	Brooklyn, N. Y.
McRossie, Hattie (McCammon)...	1887	
Nelson, John....	1887	Bearbrook.
O'Connor, Edward J....	1888	Ottawa.
Oronhyatekha, W. A. H....	1888	Toronto.
Ovens, Rufus K....	1879	Wilton.
Paine, Charles C....	1889	
*Paul, James T....	1842	(Deceased.)
*Percival, Herbert A....	1886	Mishawakena, Ind.
Pollock, John R....	1877	(Deceased.)
*Porteous, George....	1854	(Deceased.)
Pratt, Abraham A....	1879	
Purdy, Mary E. F....	1886	
*Rattee, Edward J., B.A....	1890	Noel, N. S.
Renton, Thomas T....	1879	Kingston.
Richards, Salt....	1883	
Richardson, John....	1891	Brockville.
Riddell, Alexander F....	1867	Montreal.
*Robertson, John....	1884	Hopewell, N. S.
Robertson, John D....	1859	Tarrawonga, Vic.
Roddick, James A....	1887	Lyndhurst.
Rose, Constance B....	1892	Ottawa.
*Rose, G. W....	1889	Warsaw.

Name.	Date of First Registration.	Address.
Ross, Irvine....	1866	(Deceased.)
*Ross, Archibald....	1872	New York.
*Ross, Donald....	1853	Portland, Oregon.
*Ross, Hugh....	1884	
Ross, K. J. Livingstone....	1879	Portland, Oregon.
Ross, Thomas B....	1886	Montreal.
Roland, John S....	1889	Toronto.
Roy, Henry....	1880	Chisholm, P. E. I.
*Scott, Marcus....	1891	Detroit.
Shanks, William J....	1879	Chicago.
Sherlock, John M....	1879	Toronto.
*Shore, Godfrey....	1881	(Deceased.)
Simpson, W. H. S....	1889	Brockville.
Sinclair, Jennie V....	1887	Indore, India.
Smith, Frederick....	1852	(Deceased.)
Smith, James....	1877	Toronto.
Smith, John E....	1889	Arnot.
Smith, Robert L....	1879	Appleton.
*Smith, William S....	1877	Middleville.
*Smith, Thomas G., D.D....	1847	Kingston.
*Snodgrass, John A....	1868	Scotland.
*Spencer, Hugh J....	1889	Marquette, Mich.
Steen, Henrietta....	1888	Farran's Point.
Stewart, Alexander S....	1878	(Deceased.)
Stewart, Daniel....	1883	(Deceased.)
Stewart, James A....	1892	Carleton Place.
Stewart, William R....	1887	Notre-de-Laus, Que.
*Strachan, Donald....	1865	Guelph.
Strange, O. S., M.D....	1842	Kingston.
Swales, Olive....	1892	
*Sym, F. Petry....	1884	Warton.
*Taft, J. N....	1877	Brooklyn, N. Y.
Taggart, Robert....	1890	Carleton Place.
*Taylor, Hugh....	1873	Loch Winnoch.
Telgmann, Heinrich B....	1887	New York.
*Thom, Leslie W....	1877	Flesherton.
Thomas, Henry P....	1882	Belleville.
Thompson, Andrew W....	1879	(Deceased.)
*Thompson, Archibald, B.A....	1890	Chatsworth.
Topliffe, Annie (Lapp)....	1891	Glenvale.
Twitchell, Marshall C....	1887	Burlington.
Van Blaricom, George B....	1889	
Varcoe, George F....	1886	Fenelon Falls.
Waldron, Edward W....	1889	Kingston.
Walkem, Hugh....	1875	Spence's Bridge, B. C.
Walkem, Walter, C.A....	1886	(Deceased.)
*Wallace, Robert....	1842	(Deceased.)

Name.	Date of First Registration.	Address.
Ward, David....	1850	Almonte.
Ward, Marjory....	1889	Renfrew.
Watson, Angus R....	1885	
Welch, Frederick....	1867	Kingston.
*Wilkins, T. W., B.A....	1863	Trenton.
Wilson, Daniel A....	1886	Kingston.
Wilson, Samuel....	1888	Allan's Mills.
Witheril, Ebenezer....	1889	Westport.
Wright, Henry A....	1879	Trenton.
Young, John G....	1892	Bristol, Que.
Young, William....	1886	Peterboro.
Yourex, Edmund L....	1887	Kingston.

## SOCIETIES AND COMMITTEES.

### ALMA MATER SOCIETY.

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President .....	James Wallace, M.A., B.D.
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Second Vice-President .....	H. D. Borley.
Critic .....	C. E. Kidd.
Secretary .....	W. Playfair.
Assistant Secretary .....	D. F. Ross, B.A.
Treasurer .....	A. D. McKinnon.
Committee .....	{ G. S. Malloch ('02). A. H. Singleton, B.A. (Med.) E. J. Reid ('03). R. L. Squire (Science).

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President .....	J. Y. Ferguson.
Treasurer .....	L. L. Bolton.
Secretary .....	J. Fairlie.
Auditor .....	J. McEachran.
Committee .....	{ T. H. Billings, '01. F. J. Rielly, '02. L. A. H. Warren, '03. A. D. McKinnon, '04. S. M. Polson, '05.

### AESCULAPEAN SOCIETY.

Honorary President .....	Dr. Isaac Wood.
President .....	H. E. Windel.
Vice-President .....	W. J. Knox.
Secretary .....	A. L. Smith.
Assistant Secretary .....	H. E. Bennett.
Treasurer .....	F. McK. Bell.
Committee .....	{ 4th year, J. V. Connell. 3rd year, L. Mylks. 2nd year, A. Ferguson. 1st year, R. M. Tennant.

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Honorary President .....	Prof. Watson.
President .....	A. G. MacKinnon.
Vice-President .....	Miss Lois Saunders.
Secretary-Treasurer .....	E. J. Reid.
Critics .....	{ Profs. Dyde, Cappon, Macnaughton, Marshall, Miss Lois Saunders Mr. Duff.

Advisory Committee .....	{ Miss Vaux, Miss Bryson, Miss Fleming, Miss Fenwick, Messrs. McSporran, Red- mond and Osborne.
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Arts  
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Junior Latin.

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Translate :

Atque hic successu exsultans animisque Coroebus,  
'O socii, qua prima,' inquit, 'fortuna salutis  
'Monstrat iter, quaque ostendit se dextra, sequamur :  
'Mutemus clipeos, Danaumque insignia nobis  
'Aptemus. Dolus an virtus, quis in hoste requirat ?  
'Arma dabunt ipsi.' Sic fatus deinde comantem  
Androgei galeam clipeique insigne decorum  
Induitur, laterique Argivom accommodat ensem.  
Hoc Rhipeus, hoc ipse Dymas, omnisque iuventus  
Laeta facit ; spoliis se quisque recentibus armat  
Vadimus inmixti Danaïs haud numine nostro,  
Multaque per caecam congressi proelia noctem  
Conserimus ; multos Danaum demittimus Orco.

1. Parte : *Sequamur, induitur, inmixti, congressi.*
2. Write notes on *dextra*, and *Orco*.
3. Scan the first three lines.

Translate :

Parcus deorum cultor et infrequens,  
Insanientis dum sapientiae  
Consultus erro, nunc retrorsum  
Vela dare atque iterare cursus  
Cogor relictos : namque Diespiter,  
Igني corusco nubila dividens  
Plerumque, per purum tonantes  
Egit equos volueremque currum ;  
Quo bruta tellus et vaga flumina,  
Quo Styx et invisi horrida Taenari  
Sedes Atlanteusque finis  
Concutitur. Valet ima summis  
Mutare et insignem attenuat deus,  
Obscura promens ; hinc apicem rapax  
Fortuna cum stridore acuto  
Sustulit, hic posuisse gaudet.

1. *Insanientis sapientiae.* Explain the allusion of the poet.

2. *Ima summis mutare.* State the syntax rule that applies here.

Translate :

Ceteros accolas fluminis Hannibal, et eorum ipsorum quos sedes suae tenerant, simul perlicit donis ad naves undique contrahendas fabricandasque ; simul et ipsi trajici exercitum levarique quam primum regionem suam tanta hominum urgente turba cupiebant. Itaque ingens coacta vis navium est lintriumque temere ad vicinalem usum paratarum ; novasque alias primum Galli inchoantes cavabant ex singulis arboribus ; deinde et ipsi milites, simul copia materiae simul facilitate operis inducti, alveos informes, nihil, dummodo innare aquae et capere onera possent, curantes, raptim, quibus se suaque transveherent, faciebant.

1. Explain the subjunctives *possent* and *transveherent*.

2. *Ad naves contrahendas.* Give other ways of expressing purpose that might be used here.

Sight Translation :

Inde Caesar, bellis civilibus toto orbe compositis, Romam rediit. Agere insolentius coepit et contra consuetudinem Romanae libertatis. Quum ergo et honores ex sua voluntate praestaret, qui a populo antea deferebantur, nec senatui ad se venienti assurgeret, aliaque regia ac paene tyrannica faceret, conjuratum est in eum a sexaginta vel amplius senatoribus equitibusque Romanis. Praecipui fuerunt inter conjuratos duo Bruti, ex eo genere Bruti, qui primus Romae consul fuerat et reges expulerat, C. Cassius et Servilius Casca. Ergo Caesar, quum senatus die inter ceteros venisset ad curiam, tribus et viginti vulneribus confossus est.

Translate into Latin :

Thence they advanced a journey of three days through dense forests into the enemy's territory. But on the fourth day they came to an open plain through which at some distance in front ran a broad river. Here they pitched their camp, and recruited their wearied bodies. Towards nightfall the scouts at full gallop brought news to the Roman general that the enemy were advancing in great force. Next morning he called the troops together, and delivered this speech before his men : " You see how great are the numbers of the enemy. If we attack them, we shall without doubt suffer a severe defeat. But if on the contrary they should attack us we should have good hopes of victory, for they have to cross a deep river, before they reach our lines." By these words the general persuaded his men to remain within their fortifications, and his advice was the salvation of the army.

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Senior Latin.

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1. egregia tua fides re cognita, grata mihi magnis in meis periculis, fiduciam commendationi meae tribuit. quam ob rem defensionem in novo consilio non statui parare, satisfactionem ex nulla conscientia de culpa proponere decrevi, quam me dius fidius veram licet cognoscas. iniuriis contumeliisque concitatus, quod fructu laboris industriaeque meae privatus statum dignitatis non obtinebam, publicam miserorum caussam pro mea consuetudine suscepi, non quin aes alienum meis nominibus ex possessionibus solvere possem, et alienis nominibus liberalitas Orestillae suis filiaeque copiis persolveret, sed quod non dignos homines honore honestatos videbam meque falsa suspicione alienatum esse sentiebam. hoc nomine satis honestas pro meo casu spes reliquae dignitatis conservandae sum secutus. nunc Orestillam commendo tuaeque fidei trado. haveto.

SALLUST, *Catilina*, xxxv.

2. quod facultates tuas ad meam salutem polliceris, ut omnibus rebus a te praeter ceteros iuver id quantum sit praesidium video intellegoque te multas partes meae salutis et suscipere et posse sustinere neque, ut ita facias, rogandum esse. quod me vetas quidquam suspicari accidisse ad animum tuum quod scus a me erga te commissum aut praetermissum videretur, geram tibi morem et liberabor ista cura, tibi tamen eo plus debebo, quo tua in me humanitas fuerit excelsior quam in te mea. velim quid videas, quid intellegas, quid agatur ad me scribas, tuosque omnes ad nostram salutem adhortere. rogatio Sestii neque dignitatis satis habet nec cautionis. nam et nominatim ferri oportet et de bonis diligentius scribi, et id animadvertas velim. data IIII. Non. Octobr. Thessalonicae.

CICERO, *ad Atticum*, iii. 20.

3. hæc ubi deflevit, tolli miserabile corpus imperat, et toto lectos ex agmine mittit mille viros, qui supremum comitentur honorem, intersintque patris lacrimis : solatia luctus exigua ingentis, misero sed debita patri. haud segnes alii crates et molle feretrum arbuteis texunt virgis et vimine querno, exstructosque toros obtentu frondis inumbrant. hic juvenem agre tibi sublimem stramine ponunt ; qualem virgineo demessum pollice florem seu mollis violae, seu languentis hyacinthi, cui neque fulgor adhuc, nec dum sua forma recessit ; non jam mater alit tellus, viresque ministrat.

tunc geminas vestes auroque ostroque rigentes  
extulit Æneas, quas illi læta laborum  
ipsa suis quondam manibus Sidonia Dido  
fecerat, et tenui telas discreverat auro.

VERGIL, *Aen.*, xi. 59-75.

#### 4. Translate into English :

quibus quum obsistere malis nequirent Petelini, legatos Romam ad præsidium petendum miserunt. quorum preces lacrimæque (in questus enim flebiles, quum sibimet ipsi consulere iussi sunt, sese in vestibulo curiæ profuderunt) ingentem misericordiam patribus ac populo moverunt, consultiq[ue] iterum a M. Æmilio prætore patres, circumspectis omnibus imperii viribus, fateri coacti, nihil iam longinquis sociis in se præsidii esse, redire domum, fideq[ue] ad ultimum expleta, consulere sibimet ipsos in reliquum *pro* præsentī fortuna iusserunt. hæc postquam renuntiata legatio Petelinis est, tantus repente mæror pavorq[ue] senatum eorum cepit, ut pars profugiendi, qua quisque posset, ac deserendæ urbis auctores essent.

LIVY, xxiii. 20.

#### 5. Translate into Latin :

When the French attempted to seize Minorca, Admiral Byng was dispatched with 10 ships poorly equipped and badly manned to save the island. But after a successful skirmish he called a council of war, expressed his determination to retreat and sailed away to Gibraltar two days after his arrival. The popular indignation was so loud against him on this account that he was brought to trial, and, although acquitted of treachery or cowardice, he was condemned to death for having failed to do all he might have done, and on the 14th of March he was shot on the deck of his flagship. His bravery and honesty are beyond question, but he appears to have lacked capacity and shrank from incurring risk on his own initiative.

6. State clearly the views and arguments of Caesar and Cato respectively as regards the punishment of the Catilinarian conspirators.

#### 7. Write notes upon the italicized words in the following :

- (a) *haud illi stabunt Aeneia parvo hospitia.*
- (b) *largus opum, et lingua melior.*
- (c) *nec veni, nisi fata locum sedemque dedissent.*

#### 8. Translate and explain :

- (a) domum M'. Fonteius emit HSCCCLXXX.
- (b) Asiam qui de censoribus conduxerunt.
- (c) novus homo.

Junior Greek.

Translate :

Τὸν δ' αὖ Ναυσικάα λευκώλενος ἀντίον ἤρδα·  
Ξεῖν', ἐπεὶ οὔτε κακῶ οὔτ' ἄφρονι φωτὶ ξοικας·  
(Ζεῦς δ' αὐτὸς νέμει ὄλβον Ὀλύμπιος ἀνθρώποισιν,  
ἐσθλοῖς ἤδ' ἐκαχοῖσιν, ὅπως ἐθέλῃσιν, ἐκάστῳ  
καὶ που σοὶ τὰδ' ἔδωκε, σὲ δὲ χροὴ τετλάμεν ἔμπης·)  
νῦν δ', ἐπεὶ ἡμετέρην τε πόλιν καὶ γαῖαν ἱκάνεις,  
οὔτ' οὖν ἐσθλῆτος δευήσῃαι, οὔτε τευ ἄλλου,  
ὧν ἐπέοιχ' ἰκέτην ταλαπείριον ἀντιάσαντα.  
ἄστυ δέ τοι δεῖξω, ἐρέω δέ τοι οὐνομα λαῶν.  
Φαίηκες μὲν τήνδε πόλιν καὶ γαῖαν ἔχουσιν·  
εἰμὶ δ' ἐγὼ θυγάτηρ μεγαλήτορος Ἀλκινόοιο,  
τοῦ δ' ἐκ Φαίηκων ἔχεται κάρτος τε βίη τε.

Homer, *Odyssey*, vi. 186-197.

1. Parse ἤρδα, ξοικας, ἐθέλῃσιν, δεῖξω, ἐρέω.
2. Explain the genitives ὧν (l. 193) and τοῦ (l. 197).
3. Scan the first three lines.

Translate :

(a) Τρίτῃ δ' ἀπὸ ταύτης ἡμέρας τὸν Ὀκεανὸν ἤδη σαφῶς  
ἑωρῶμεν· γῆν δὲ οὐδαμοῦ, πλὴν γε τῶν ἐν τῷ ἀέρι· τῇ  
τετάρτῃ δὲ περὶ μεσημβρίαν, μαλακῶς ἐνδιδόντος τοῦ πνεύ-  
ματος καὶ συνεζάνοντος, ἐπὶ τὴν θάλατταν κατετέθημεν. ὥς  
δὲ τοῦ ὕδατος ἐφάσαμεν, θαυμάσιον ὥς ὑπερηρόμεθα καὶ  
ὑπερεχαίρομεν καὶ πᾶσαν εὐφροσύνην ἐκ τῶν παρόντων  
ἐποιούμεθα καὶ ἀπορβάντες ἐνιγρόμεθα· καὶ γὰρ ἔτυχε γαλήνη  
οὔσα καὶ εὐσταθοῦν τὸ πέλαγος.

(b) “ΟΔΥΣΣΕΥΣ ΚΑΛΥΨΟΙ χαίρειν. ἴσθι με, ὥς τὰ  
πρῶτα ἐξέπλευσα παρὰ σοῦ τὴν σχεδῖαν κατασκευασάμενος,  
ναυαγία χρησάμενον καὶ μόλις ὑπὸ Λευκοθέας διασωθέντα

εἰς τὴν τῶν Φαιάκων χώραν, ὅφ' ὧν ἐς τὴν οἰκείαν ἀποπεμφθεὶς κατέλαβον πολλοὺς τῆς γυναικὸς μνηστῆρας ἐν τοῖς ἡμετέροις τρυφῶντας. ἀποκτείνας δὲ ἅπαντας ὕστερον ὑπὸ Τηλεγόνου τοῦ ἐκ Κίρκης μοι γενομένου ἀνγχεύθη. καὶ νῦν εἰμι ἐν τῇ Μυκάρων νήσῳ, πάνυ μετανοῶν ἐπὶ τῷ καταλιπεῖν τὴν παρὰ σοὶ δίαίταν, καὶ τὴν ὑπὸ σοῦ προτεινομένην ἀθανασίαν. ἦν οὖν καιροῦ λάβωμαι, ἀποδράς ἀφίξομαι πρὸς σέ.”

Lucian, Vera Historia.

1. Parse (a) ἑωρῶμεν, ἐνδιδόντος, κατετέθημεν, (b) ἴσθι, ἀνγχεύθη, ἀφίξομαι.

2. State what events in the story precede and follow these extracts.

Sight Translation :

Κῦρος δὲ ἀγείρας τὸν στρατόν, καὶ παραλαβὼν τοὺς πλησίον οἰκοῦντας πάντας, ἤντιοῦτο Κροίσῳ πρὶν δὲ ἐπεξάγειν τὸν στρατόν, πέμψας χήρυκας εἰς τοὺς Ἰωνας ἐπειράτο αὐτοὺς ἀπὸ Κροίσου ἀφιστάναι. Ἰῶνες μὲν νῦν οὐκ ἐπείθοντο. Κῦρος δὲ ὡς ἀφίκετο, καὶ ἀντεστρατοπεδεύσατο Κροίσῳ. ἐνταῦθα ἐν τῇ Πτερίᾳ χώρα ἐπειρῶντο κατὰ τὸ ἰσχυρὸν ἀλλήλων. μάχης δὲ καρτερᾶς γενομένης καὶ πεσόντων ἀμφοτέρων πολλῶν, τέλος οὐδ' ἄλλοι νικήσαντες διέστησαν, λυγρὸς ἐπελθούσης.

Herodotus.

Translate into Greek :

1. They said that silence was better than speech under the existing circumstances.

2. He waited till the gate was opened by the guards.

3. It was reported that the enemy would arrive at day-break.

4. He was in doubt as to where he should set up the trophy.

5. They said that all of them would have been killed, if the enemy had not given quarter.

6. When six months had passed, we were ordered to leave the Isle of the Blest. On hearing this I wept bitterly. The residents, however, tried to comfort me by telling me that in a few years I should come back again to them. Thus comforted I started with my companions for my native land.



Senior Greek.

I. Translate:

Τοιοῦτῳ μὲν πάθει οἱ Ἀθηναῖοι περιπεσόντες ἐπιέζοντο, ἀνθρώπων τε ἔνδον θνησκόντων καὶ γῆς ἔξω ὀηουμένης. ἐν δὲ τῷ κακῷ οἷα εἰκὸς ἀνεμνήσθισαν καὶ τοῦδε τοῦ ἔπους, φάσκοντες οἱ πρესβύτεροι πάλαι ἄδεσθαι, „ἤξει Δωριακὸς πόλεμος καὶ λοιμὸς ἀμ' αὐτῷ.“ ἐγένετο μὲν οὖν ἔρις τοῖς ἀνθρώποις μὴ λοιμὸν ὠνομάσθαι ἐν τῷ ἔπει ὑπὸ τῶν παλαιῶν, ἀλλὰ λιμὸν, ἐνίκησε δὲ ἐπὶ τοῦ παρόντος εἰκότως λοιμὸν εἰρησθαι· οἱ γὰρ ἄνθρωποι πρὸς ἃ ἔπασχον τὴν μνήμην ἐποιοῦντο. ἦν δέ γε οἰμῆι ποτε ἄλλος πόλεμος καταλάβῃ Δωρικὸς τοῦδε ὕστερος καὶ ξυμβῆναι γενέσθαι λιμὸν, κατὰ τὸ εἰκὸς οὕτως ἄσονται. μνήμη δὲ ἐγένετο καὶ τοῦ Λακεδαιμονίων χρηστηρίου τοῖς εἰδόσιν, ὅτε ἐπερωτῶσιν αὐτοῖς τὸν θεὸν εἰ χρηὴ πολεμεῖν ἀνεῖλε κατὰ κράτος πολεμοῦσι νίκην ἔσσεσθαι, καὶ αὐτὸς ἔφη ξυλλήψεσθαι. περὶ μὲν οὖν τοῦ χρηστηρίου τὰ γηγνόμενα ἥκαζον ὁμοῖα εἶναι· ἐσβεβληκότων δὲ τῶν Πελοποννησίων ἡ νόσος ἤρξατο εὐθύς. καὶ ἐς μὲν Πελοπόννησον οὐκ ἐσῆλθεν, ὃ τι ἄξιον καὶ εἰπεῖν, ἐπενείματο δὲ Ἀθήνας μὲν μάλιστα, ἔπειτα δὲ καὶ τῶν ἄλλων χωρίων τὰ πολυανθρωπότατα. ταῦτα μὲν τὰ κατὰ τὴν νόσον γηγνόμενα.

Thucydides, ii. 54.

2. Parse ἐπενείματο, ἀνεῖλε, πολεμοῦσι, ἐσβεβληκότων, εἰρησθαι, ἄσονται, ἐπερωτῶσιν, ἀνεμνήσθισαν.

3. Give the substance of Thucydides' characterization of Pericles, with your own remarks.

4. Translate:

ὥς φάτο Τηλέμαχος, μνηστῆρσι δὲ Παλλὰς Ἀθήνη  
ἄσβεστον γέλω ὥρσε, παρέπλαγξεν δὲ λόγημα.  
οἱ δ' ἤδη γναθμοῖσι γελῶων ἀλλοτρίοισιν,



αἰμοφόρυκτα δὲ δὴ κρέα ἥσθιον· ὅσσε δ' ἄρα σφέων  
δακρυόφιν πίμπλαντο, γόον δ' ὤιετο θυμός.

τοῖσι δὲ καὶ μετέειπε Θεοκλύμενος θεοειδής·

„ἄ δειλοί, τί κακὸν τόδε πάσχετε; νυκτὶ μὲν ὕμεων

εἰλύεται κεφαλαί τε πρόσωπά τε νέρθε τε γούνα,

οἰμωγὴ δὲ δέδηκε, δεδάκρυνται δὲ παρειαί,

αἶματι δ' ἐρράδαται τοῖχοι καλαί τε μεσόδμοι.

εἰδώλων δὲ πλέον πρόθυρον, πλείη δὲ καὶ αὐλή,

ἱεμένων ἐρεβόσδε ὑπὸ ζόφον· ἱέλιος δὲ

οὐρανοῦ ἐξαπόλωλε, κακὴ δ' ἐπιδέδρομεν ἀχλὺς “

ὥς ἔφαθ', οἱ δ' ἄρα πάντες ἐπ' αὐτῷ ἡδὺν γέλασαν.

τοῖσιν δ' Εὐρύμαχος Πολύβου πάϊς ἦρχ' ἀγορεύειν·

„ἀφραίνει ξεῖνος νέον ἄλλοθεν εἰληλουθώς.

ἀλλὰ μιν αἶψα, νέοι, δόμου ἐκπέμψασθε θύραζε

εἰς ἀγορὴν ἐρχεσθαι, ἐπεὶ τάδε νυκτὶ εἴσκει “

τὸν δ' αὖτε προσέειπε Θεοκλύμενος θεοειδής·

„Εὐρύμαχ', οὗ τί σ' ἄνωγα ἐμοὶ πομπῆς ὀπάξειν·

εἰσὶ μοι ὀφθαλμοί τε καὶ οὖατα καὶ πόδες ἄμφω

καὶ λόος ἐν στήθεσσι τετυγμένος, οὐδὲν ἀεκήξ·

τοῖς ἔξιμι θύραζε, ἐπεὶ νοέω κακὸν ὕμιν

ἐρχόμενον, τό κεν οὗ τις ὑπεκφύγοι οὐδ' ἀλέαιτο

μνηστήρων, οἳ δῶμα κατ' ἀντιθέου 'Οδυσῆος

ἀνέρας ὑβρίζοντες ἀτάσθαλα μηχανάσθε.“

Homer, *Odyssey*, xx. 345-370.

5. Parse γελῶων, ὥρσεν, παρέπλαγξεν, δέδηκεν, ἐπιδέδρομεν, ἀλέαιτο, εἰλύεται, ἐρράδαται.

6. Describe the slaughter of the wooers.

7. Translate:

”Εδοξεν οὖν αὐτοῖς ἀνδρας ἐς κελήτιον ἐσβιβάσαντας  
ἄνευ κηρυχείου προσπέμψαι τοῖς Ἀθηναίοις καὶ πείραν  
ποιήσασθαι. πέμψαντές τε ἔλεγον τοιαύδε· „Ἀδικεῖτε, ὦ  
ἄνδρες Ἀθηναῖοι, πολέμου ἄρχοντες καὶ σποινδὰς λύοντες.  
ἡμῖν γὰρ πολεμίους τοὺς ἡμετέρους τιμωροῦμένοις ἐμποδῶν

ἵστασθε ὄπλα ἀνταιρόμενοι. εἰ δ' ὑμῖν γνώμη ἐστὶ κωλύειν τε ἡμᾶς ἐπὶ Κέρκυραν ἢ ἄλλοσε εἴ ποι βουλόμεθα πλεῖν καὶ τὰς σποινδὰς λύετε, ἡμᾶς τοῦσδε λαβόντες πρῶτον χρήσασθε ὡς πολεμίοις.“ οἱ μὲν δὴ τοιαῦτα εἶπον· τῶν δὲ Κερκυραίων τὸ μὲν στρατόπεδον ὅσον ἐπήκουσεν εὐθὺς λαβεῖν τε αὐτοὺς καὶ ἀποκετεῖναι, οἱ δὲ Ἀθηναῖοι τοιάδε ἀπεκρίναντο. „Οὔτε ἄρχομεν πολέμου, ὦ ἄνδρες Πελοποννήσιοι, οὔτε τὰς σποινδὰς λύομεν, Κερκυραίοις δὲ τοῖσδε ξυμμάχοις οὔσι βοηθοὶ ἤλθομεν. εἰ μὲν οὖν ἄλλοσέ ποι βούλεσθε πλεῖν, οὐ κωλύομεν· εἰ δὲ ἐπὶ Κέρκυραν πλευσεῖσθε ἢ ἐς τῶν ἐκείνων τι χωρίων, οὐ περιοφόμεθα κατα τὸ δυνατόν.“

Thucydides, i. 53.

## 8. Make into Greek:

They did not deny having done things which they ought not to have done.

I fear they will prove inferior to their fathers.

Do not take any violent measures till we decide upon the fate of the prisoners.

He said that not he but the other man would give way.

On the eve of the declaration of war great excitement prevailed throughout Greece. The general feeling, as was natural, ran strongly in favour of the Spartans, whose flag was inscribed with the inspiring motto: "Freedom for Greece." Athens was both hated and feared; hated by her actual subjects, feared by those who dreaded they might one day fall under her yoke. In these cities themselves, the war-fever ran high. Their atmosphere was electric with ambitious dreams. They were both rich in young men who added the fire of youth to the enthusiasm of ignorance; and both young and old were brimful of that energy characteristic of the inception of great undertakings, which makes each individual think that things are at a stand-still, where he is not personally engaged.



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Junior French.

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A.

Translate :

1. J'arrive à la scène qui devait terminer cette lutte pénible, et m'en prouver malheureusement toute la vanité.—Pour faire leurs adieux à leur fille, dont le mari est rappelé à son poste, M. et madame de Malout donnaient hier un grand bal de gala, auquel tous les environs, à dix lieues à la ronde, avaient été convoqués. Vers dix heures, la foule inondait l'immense rez-de-chaussée du château, où les toilettes, les lumières et les fleurs se confondaient dans un pêle-mêle éblouissant.—Comme j'essayais de pénétrer dans le salon principal, je me trouvai vis-à-vis de madame de Malouet, qui me tira un peu à l'écart.

—Eh bien, mon cher monsieur, me dit-elle, cela va mal.

—Mon Dieu! qu'y a-t-il de nouveau?

—Je ne sais trop, mais soyez sur vos gardes. Ah! cela ne va pas bien... Mon Dieu, j'ai en vous une confiance bien singulière, monsieur; vous ne la tromperez pas, n'est-ce pas?

2. L'aigle est considéré comme le roi des oiseaux. On en distingue plusieurs espèces. La plus grande, appelée *aigle doré*, a environ un mètre de long et deux mètres et demi d'envergure. L'aigle s'établit d'ordinaire sur des pointes de rocher, sur des tours isolées, sur des ruines solitaires. Son nid, appelé *aire*, est plat, et composé de branchages entrelacée et recouverts de joncs et de bruyères. On prétend que le même nid sert à l'aigle toute sa vie; mais c'est un fait qu'il est assez difficile de constater. La ponte est de deux ou trois œufs au plus; la femelle les couve pendant trente jours. La vigueur de l'aigle est telle qu'il enlève très facilement dans les airs des quadrupèdes d'assez forte taille, des moutons, des chèvres même. Il se précipite sur sa proie après avoir plané en cercle au-dessus d'elle; et, si elle lui résiste, il la renverse, en la frappant de ses ailes puissantes, l'étourdit, l'aveugle à coups de bec; puis il la dépèce sur place, si elle est trop pesante pour qu'il puisse l'emporter dans ses serres.

3. (a) Ce parvenu s'est mis au mieux avec la comtesse.—(b) Vous avez donc des morales de rechange.—(c) Quand je venais à le voir il allait être mis en faillite.—(d) Quand même j'eusse en train de lire j'aimerais mieux avoir un livre qui fût plus intéressant.—(e) Après qu'il fut mis au courant de la situation elle s'en rapporta à lui absolument.—(f) Vous m'avez mis tout sens dessus dessous.—

(g) L'usurier n'en était pas à sa dernière surprise quand Marthe lui rendit les bijoux parce qu'elle ne les trouvait pas en rapport avec sa situation.—(h) Ce que c'est que de nous!—(i) Il n'y a pas là de quoi fouetter un chat.—(j) Le temps quand il pouvait compter sur sa mère tirait à sa fin quand son ami lui promit de le mettre à même de faire face à ses dépenses.—(k) Tu ne feras jamais qu'il n'y ait pas dans ce monde des myopes et des presbytes.—(l) Si votre ramage se rapporte à votre plumage, vous êtes le phénix des hôtes de ces bois.—(m) Ce n'est pas que je me pique de tous vos festins de roi.—(n) N' a-t-il pas assez léché l'ours.—(o) Il n'était fils de bonne mère qui les payant, à qui mieur mieux, Pour ses ancêtres n'en fît faire.

## B.

### 1. Translate into French :

(a). As he had told Miss Racelot, the lawyer was going to begin his new task at once, and not leave it for an instant, so as to bring the work of restitution to a successful issue with as little delay as possible. Having a noble and generous nature, Mr. Rosselet was in all respects worthy of Martha's confidence, and he was proud of the mission he had to fulfil. It was an honour. And, besides his personal satisfaction, what would the fellow-labourer of Miss Racelot not gain in esteem and reputation? Martha had hardly left him when he sat down at his desk and wrote to his Paris friend, a young lawyer, who, like himself, had been first clerk in one of the principal offices of the city. He gave him the address of the day-labourer, Jules Bertrand, mentioned in the brother's letters, and charged him to obtain all possible information about him and his family.

(b). (a) She could have earned thirty francs a day by giving lessons on the violin.—(b) Mr. Girand did not doubt that Elisa would marry him.—(c) I would like very much to have a friend on whom I could rely.—(d) His career as an artist might be considered a failure.—(e) She was half an hour late to catch the stage.—(f) Are you going away never to return?—(g) She was grateful to him for his advice although he made fun of her.—(h) He seemed to take pleasure in grovelling instead of aiming high.—(i) If you give me your word of honour on it, it is as good as your bond.—(j) A frog tried to make itself as large as an ox.

2. Write a résumé in French of "La Main Malheureuse," or "l'Hirondelle et les Petits Oiseaux." (About 300 words.)

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Quote "Le Loup et le Chien," or "Le Loup et l'Agneau," or "Le Chêne et le Roscau."

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**Senior French.**

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**A.**

**1. Translate into English :**

(a) Le transformateur joue donc ici le rôle inverse de la bobine de Ruhmkorff ordinaire, car il réduit la tension au lieu de l'augmenter. Mais cela ne change rien au principe même, puisqu'il suffit de modifier le rapport du nombre de spires pour modifier dans un sens ou dans l'autre le coefficient de transformation. Le rendement des transformateurs à courants alternatifs est remarquablement élevé. Il atteint 97% à pleine charge dans les appareils les plus récents et reste très élevé, même pour de très faibles charges. Il ne semble pas possible d'améliorer ce rendement qui touche à la perfection; les progrès futurs auront principalement pour objet de réduire le prix de construction de ces utiles auxiliaires.

(b) Le soleil naissant colorait le ciel depuis un instant à peine. Il paraissait à l'horizon une ligne éclatante et jaune, sur laquelle les montagnes découpaient durement leurs formes d'un bleu foncé; les vagues de la Saône et les chaînes de la ville, tendues d'un bord à l'autre, étaient encore voilées par une légère vapeur qui s'élevait aussi de Lyon, et dérobait à l'œil le toit des maisons. Les premiers jets de la lumière matinale ne coloraient encore que les points les plus élevés du magnifique paysage. Dans la cité, les clochers de l'hôtel de ville et de Saint-Nizier, sur les collines environnantes, les monastères des Carmes et de Sainte-Marie, et la forteresse entière de Pierre-Encise, étaient dorés de tous les feux de l'aurore. On entendait le bruit des carillons joyeux des villages. Les murs seuls de la prison étaient silencieux.

(c) J'en suis ferue.—Si ce n'est pas sous l'orme.—Il a passé sa vie à faire l'école buissonnière.—Vous faites lâcher prise à ces bandits.—C'est trop peu de votre jeunesse, de votre grâce de votre pureté.—Elle prit son élan et passa le long de la muraille.—Il ne savait pas si bien dire.—Dans le jardin, à la bonne heure!—Voilà du guignon.—Vous êtes maintenant au courant de tout ce qui me regarde.

**2. Explain in French :**

Roxane est précieuse et que le fin du fin ne soit la fin des fins.—Il s'en fallait de beaucoup, mais qu'importe.—Il n'en était rien.—Il représenté à s'y méprendre un cétacé.—Saknussem était mis à l'index.—Le juge prétendait qu' à tort et à travers, On ne saurait manquer condamnant un pervers.—Dans l'abord il se met au large.—Une chauve-souris donna tête baissée Dans un nid de belette.—Le roi des animaux se met un jour en tête de giboyer.—J'en veux faire à ma tête.—Vous me la baillez belle.

## B.

### 1. Translate into French :

(a) When all had arrived the ladies sat down at one side of the table, the gentlemen at the other. Thirty-two heaped up dishes and a splendid centre-piece stood upon the table. The dishes were changed twice, and the last course was as follows : On one end of the table was a deer roasted whole, at the other end a wild boar, and at the sides were a number of pheasants with gilt beaks and outspread wings, and two dishes of lobsters. The host made many apologies for the poor dinner ; he said he had not had time to provide anything better.

(b) He got too many quarrels on his hands and his way of living led him to make a strange decision.—The ship stood out to sea with a south wind and all sails set.—The clerk lacked 8,460 $\frac{3}{4}$  (words) marks of being right.—One never knows what to count on.—Your grand parents no longer bear you any grudge, in fact they are grateful to you although you are not much good.—The law has nothing to do with it.—The ‘troupe’ was playing Shakespeare, and Montfleury was playing Hamlet—while the men who played the violins were playing cards in the pit.—We must take breath.—Let us try to see whether by any means we shall succeed (*bout*).—I am sorry that I was saved from the shipwreck. Indeed I am!—The countess burst out laughing.

(c) Write in French a full account of *La mort de François*.

(d) Write a French composition of about 400 words on “Le Voyage au Centre de la Terre.”

## C.

1. Discuss theme and style of “Le Gendre de M. Poirier.”

2. (a) Sketch the life of Cyrano de Bergerac. (b) Give examples of picturesque effect, pathos, humor, and poetry in the play. (c) Compare briefly with the classic drama of Corneille, Racine, &c.

3. Discuss the following maxims and name the fables in which they are illustrated: *Quiconque est loup agisse en loup. Le mieux est l'ennemi du bien. La méfiance est mère de la sûreté.* Reproduce any one of these fables in French prose.



**Junior and Senior French.**

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*Dictation.*

Il y avait un homme veuf qui s'appelait Prudent et qui vivait avec sa fille. Sa femme était morte peu de jours après la naissance de cette fille, qui s'appelait Rosalie.

Le père de Rosalie avait de la fortune; il vivait dans une grande maison qui était à lui: la maison était entourée d'un vaste jardin où Rosalie allait se promener tant qu'elle voulait.

Elle était élevée avec tendresse et douceur, mais son père l'avait habituée à une obéissance sans réplique. Il lui défendait d'adresser des questions inutiles et d'insister pour savoir ce qu'il ne voulait pas lui dire. Il était parvenu, à force de soin et de surveillance, à presque déraciner en elle un défaut malheureusement trop commun, la curiosité.

Rosalie ne sortait jamais du parc, qui était entouré de murs élevés. Jamais elle ne voyait personne que son père; il n'y avait aucun domestique dans la maison; tout semblait s'y faire de soi-même; Rosalie avait toujours ce qu'il lui fallait, soit en vêtements, livres, soit en ouvrages ou en joujoux.



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**Junior German.**

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**A.**

**1. Translate into English :**

(a) Dort lebte Felix als ein geschickter Goldarbeiter; der Ruhm seiner Kunst verband sich mit der wunderbaren Sage von seinem Heldenmut und verschaffte ihm Kunden im ganzen Reiche. Viele Fremde, wenn sie durch die schöne Stadt Nürnberg kamen, lieszen sich in die Werkstatt des berühmten Meisters Felix führen, um ihn zu sehen, zu bewundern, wohl auch ein schönes Geschmeide bei ihm zu bestellen. Die angenehmsten Besuche waren ihm aber der Jäger, der Zirkelschmied, der Student und der Fuhrmann. So oft der letztere von Würzburg nach Fürth fuhr, sprach er bei Felix ein; der Jäger brachte ihm beinahe alle Jahre Geschenke von der Gräfin, der Zirkelschmied aber liesz sich, nachdem er in allen Ländern umhergewandert war, bei Meister Felix nieder. Eines Tages besuchte sie auch der Student. HAUFF.

(b) Ach, und läge man nur im Meeresgrund! Aber die fürchterliche Qual, fort und fort leben zu sollen, an der Freudentafel des Lebens hungernd und durstend vorüber zu müssen! Allen Menschen Trost und Stütze zu sein, und selbst so unsäglich elend. Was sollte er andern sagen, da er so einsam, so namenlos litt, bis zum Wahnsinn litt.

(c) Nur eines Namens genügte mir nie—seit ich unter die Völker fuhr.—Ich hörte den Losungsruf—“Alle auf den König.”—Sie wird über die Gebühr verwöhnt.—Die Herren nahmen ihn sofort in die Zucht.—Peter hatte den Fremden so weit dasz er es nicht ertragen konnte.—Es blieb ihm nichts darüber also wo er Verderben gesaet hatte, blindlings rettend zu springen.—Nun was ich so aufgeschnappt habe, versetzte sie und strich sich dabei ein krauses Löckchen zurück.—Eine Prise gefällig?—Ich habe mir Wunder was eingebildet.—Wie artig müsst sie sich hier ausnehmen, Trauben abschneidend.

**2. Give the title of the story from which extract (b) is taken, and give in German its connection with the story.**

**3. Explain in German :**

1. Sie wurde immer solchen Wünschen weniger zugänglich.
2. Sie liesz sich das nicht wehren.
3. So schneiden Sie nur meinetwegen einen Flügel ab.

4. Was nicht gar, rief sie.
5. Ihm war die Geschichte gänzlich entfallen.
6. Sie wollen mich zum Besten haben.
7. Was nehmen Sie heraus?

## B.

### 1. Translate into German :

(a) Said pleaded with them for pity, he promised them a great ransom; but laughing they swung themselves into the saddle and rode away. A few moments he watched the light steps of their horses, then he gave himself up for lost. He thought of his father, of the sorrow of the old man if his son should not come home; he thought of his own wretchedness, that he must die so young; for nothing was more certain to him than that he must die the martyr's death in the hot sand; or that he should be torn by jackals. The sun rose still higher and burned with a glow upon his brow. With endless trouble he at last succeeded in turning over, but it gave him little ease.

(b) While out on the hunt, he had not paid any attention to the dampness, but now it occurred to him.

He ought to have chosen the right, and not have gratified himself to his own destruction.

I am not angry at him, I have forgotten his wickedness.

He interrupted me and asked me if I would graciously look at the purse.

Many wild animals may be caught and tamed.

I am sorry that I have spoken of it to-day.

You may rely on what he advises you.

Did you want to go to service? [Past indef.]

Why, you have only known me for three hours.

(c) Write a composition in German of about 300 words on "Peter Schlemihl," or "Vetter Gabriel."

## C.

1. (a) Explain the meaning of the shadow in Peter Schlemihl. (b) Give Chamisso's position in German Literature. (c) Write a short biographical note on, and an appreciation of, Paul Heyse and Felix Dahn.

2. Write short notes on (a) Frya, (b) Walhalla, (c) Jottemheim, (d) Asgardh.

3. Discuss briefly the probability of "Vetter Gabriel."

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PASS.

**Senior German.**

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1. Translate into English :

(a) Ich ergab mich aber in mein Schickal, vergegenwärtigte mir den Spaziergang von gestern Abend mit der grössten Ruhe verwandelte sich deises stille Gefühl bald wieder in Ungeduld, und nun beschloss ich, schnell in die Stadt zu reiten, mich umzuziehen, ein gutes frisches Pferd zu nehmen ; da ich denn wohl allenfalls, wie mir die Leidenschaft vorspiegelte, noch vor Tische oder, wie es wahrscheinlicher war, zum Nachtsche oder gegen Abend gewiss wieder eintreffen und meine Bergebung erbitten konnte,

(b) Die Luftspiegelung ist besonders auf grossen Ebenen, wie in der Sahara, in den Wüsten Aegyptens, in Ungarn u.s.w. häufig. In der Meerenge von Messina ist sie unter dem Namen Fata Morgana bekannt. Hier sieht man Häuser, Felsen, Schiffe u. s. w., welche in weiter Ferne, gewöhnlich hinter der Wölbung der Meeresoberfläche legen, meist verzerrt, verdoppelt, aufrecht oder verkehrt über dem Meeresspiegel. Dieselbe Spiegelung ist auch im nördlichen Eismeer gewöhnlich. Sie beruht auf vollständiger Zurückwerfung der Strahlen, wenn über einer wärmeren und dünneren Luftschicht am Boden eine höhere, dichtere, weniger erwärmte sich befindet (als Ausnahme von dem Gesetz der Luftschichten), aus welcher nun die von einem entfernten Punkt ausgegangenen Strahlen nicht wieder austreten können.

2. Explain in German and give the equivalent expression for the following in idiomatic English :

Der Landrat war ein um die Wehrhaftmachung des Vaterlands verdienter Mann.—Helfen Sie doch den armen Leuten auf die Sprünge.—Sie wollten ihm den roten Hahn aufs Dach setzen.—Sie sprach nur, wenn sie von ihrem Vater um ihre Meinung angegangen wurde.—Du musst bleiben, so dass unser Plan nicht ins Wasser fällt.—Deine Meinungen können dich leicht in schiefe Lage bringen:—Bis dahin hatte er das Verständnis der Musick abgesprochen.—Du hast mich ausgestochen.—Was es mit dem Mädchen auf sich habe.—Einige Tage darauf ward ihm von unbekannter Hand eine anschnliche Summe Geldes zugestellt, angeblich um eine vergessene Begräbnissgebühr zu entrichten.

B.

3. Translate into German :

At last the dreaded morning dawned ; but a thick fog, which lay brooding over all the field, delayed the attack till noon. Kneeling in front of his lines, the King offered up his devotions ; the whole army at the same moment, dropping on their right knees, uplifted a moving hymn, and the field-music accompanied their singing. The King then mounted his horse ; dressed in a jerkin of buff, with a surtout (for a late wound hindered him from wearing armor), he rode through the ranks, rousing the courage of his troops to a cheerful confidence, which his own forecasting bosom contradicted. "God with us" was the battle-word of the Swedes ; that of the Imperialists was "Jesus Maria." About eleven o'clock the fog began to break, and Wallenstein's lines became visible. At the same time, too, were seen the flames of Lützen, which the Duke had ordered to be set on fire, that he might not be outflanked on this side. At length the signal pealed ; the horse dashed forward on the enemy ; the infantry advanced against his trenches.

#### 4. Translate into idiomatic German :

He risked his life for it.—He had long been considered a bitter enemy of the house.—I was prepared for this, and I ask you to place me under arrest.—In a moment she regained her former composure.—It's all very well for her to speak.—I have often called at their house.—He would defend his convictions with his life.—Many months had passed before the count returned home again.—I shall have no pleasure in the son whom God has been pleased to give me in place of my lost one.

5. Write a short German composition of about 400 words on Boleslav, or, "Der Schimmelreiter."

#### C.

6. Write a concise sketch of the Development of German Ballad Poetry, beginning with Bürger.

7. Discuss briefly the truth to life of (a) "Der Verlorene Sohn," and (b) "Der Schimmelreiter."

8. Was sind Induktion und Deduktion in der National-ökonomie, und welche von beiden sollte man sich bei der Forschung bedienen ? (Answer in German preferred.)

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Quote : "Der Arme Peter," or, "Begegnung."

**Junior and Senior German.**

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*Dictation.*

Es ist nun schon lange her, da lebte ein König, dessen Weisheit im ganzen Lande berühmt war. Nichts blieb ihm unbekannt, und es war, als ob ihm Nachricht von den verborgensten Dingen durch die Luft zugetragen würde. Er hatte aber eine seltsame Sitte. Jeden Mittag, wenn von der Tafel alles abgetragen und niemand mehr zugegen war, musste ein vertrauter Diener noch eine Schüssel bringen. Sie war aber zugedeckt, und der Diener wusste selbst nicht, was darin lag, und kein Mensch wusste es; denn der König deckte sie nicht eher auf und aß nicht davon, bis er ganz allein war. Das hatte schon lange gedauert, da überkam eines Tages den Diener, als er die Schüssel wieder wegtrug, die Neugierde so heftig, dass er nicht widerstehen konnte, sondern die Schüssel in seine Kammer brachte. Er verschloß die Thür sorgfältig, hob den Deckel auf, und da sah er, dass eine weiße Schlange darin lag. Bei ihrem Anblick konnte er die Lust nicht zurückhalten sie zu kosten; er schnitt ein Stückchen davon ab und steckte es in den Mund. Kaum aber hatte es seine Zunge berührt, so hörte er vor seinem Fenster ein seltsames Gewisper von feinen Stimmen.





**Junior Hebrew.**

1. In the words יִזְכֹּר and קָלוּ is the Daghesh, lene forte? How can you distinguish in this and other cases?

2. Correct where necessary the following words:

לְעֵבֶר הָאִישׁ בַּחֲמֹר לְשֹׁמֵר רוּחַ

3. Prefix the article with its pointing to the following words: רֹאשׁ יוֹם עַם אֹר קוֹל

4. Prefix separately the prep. ל and the conj. ו with their pointings to the following words: סֵפֶר אֲרִי לֵבב

5. What is meant by the construct state? Give the construct sing. and pl. of תּוֹרָה לֵבב גִּרּוֹל נְבִיא דָּבָר

6. Give the following parts of any regular verb in the Qal.: 2nd sing. mas. pf.; 1st sing. impf.; 1st pl. impf.; act. part., and imperative.

7. Translate (a) Gen. I. 14-15; (b) I Sam. iv. 9-10; (c) x. 14-15; (d) XI. 4-5.

8. Parse each word in Ps. I. 6; Gen. I. 17; I Sam. ix. 23.

9. Translate:

וַחֲשֹׁךְ עַל-פְּנֵי הַמַּיִם:  
לֹא שָׁמְרָנוּ תּוֹרַת יְהוָה אֱלֹהֵי יִשְׂרָאֵל:  
הַהָרִים הָאֵלֶּה רָמִים מְאֹד:  
שָׁמַע הָאָדָם הַקּוֹל בְּגֹן:  
מִי אֲתָם:

10. Translate into Hebrew: Thy words; his face; her horses; their word; my day. The waters are upon the face of all the earth. The great day of the Lord. The day of the Lord is great. The man wrote in the book. These are the asses which we slew.



**Senior Hebrew.**

1. How does Hebrew express the comparative and superlative of adjectives? Give illustrations.

2. Translate Mal. II. 14-16; Hagg. II. 1-3; Zech. v. 3-5.

3. Analyse each word in Zech. II. 8; Hagg. I. 7; Mal. III. 10.

4. Explain fully how the different cases of pronouns are expressed in Hebrew. Give examples.

5. Give the characteristic deviations of נָתַן.

6. Give the infin. cons. and 1st sing. imperf. Qal. of אָמַר and שָׁלַח וְנָלָה וְיָשַׁב

7. Translate: Whosoever sheddeth man's blood by man shall his blood be shed. Jahweh repented that he made man on the earth. Hear, O heavens, for Jahweh has spoken. Remember the seventh day to sanctify it. The poor seek water and there is none. The heavens are telling the glory of God.

8. Translate:

אָתָּה הַמֶּלֶכֶת אַתָּה תַּחַת דָּוִד אָבִי: הִנֵּה פָנַי בָּעֵם הַזֶּה  
וְהַשְׁמַדְתִּי אֹתָם מֵעַל-פָּנַי הָאֲדָמָה: וַיִּשְׁכֵּן אֱלֹהִים לִפְנֵי  
גֵן עֵדֶן אֶת-הַכְּרָבִים לִשְׁמֹר דֶּרֶךְ עֵץ הַחַיִּים: וְאַנְכִּי  
הַסֵּתֶר אֶסְתִּיר פָּנַי בַּיּוֹם הַהוּא: הִנֵּה רֹאשׁוֹ מִשְׁלָךְ  
אֵלַי בְּעֵד הַחוּמָה: וַיִּשְׁלְחוּ וַיִּקְרְאוּ אֶת-יִרְבֵּעָם וַיְמַלִּכוּ  
אֹתוֹ עַל-יִשְׂרָאֵל: אֲלֵנָּא תַּסְתֵּר אֶת-פָּנַי מִהֶעַם  
הַזֶּה:



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Junior English.

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I.

THE MERCHANT OF VENICE.

The quality of mercy is not strained,  
It droppeth *as* the gentle *rain* from heaven  
Upon the place beneath: it is *twice* blessed:  
It blesseth him that gives and him that takes.  
'Tis mightiest in the mightiest, it becomes  
The *throned monarch* better than his *crown*:  
His sceptre shows the *force* of temporal power,  
The *attribute* to awe and majesty,  
*Wherein* doth sit the dread and fear of kings,  
It is an attribute to God *himself*,  
And earthly power doth then show *likest God's*  
When mercy seasons justice.

1. (a) Parse fully and explain the grammatical function of the italicised words; (b) give the meaning of the following words and phrases: "quality of mercy," and "strained," l. 1; "temporal," l. 7; the attribute to awe and majesty," l. 8; (c) state the main points in Portia's plea.

2. Describe the character of Portia. Illustrate your remarks by reference to the play.

3. Mention the different stories which Shakespeare has woven together in *The Merchant of Venice*. State, with reasons, which you consider to be the principal one.

4. (a) Quote (1) Portia's description of the English lord, and (2) her humorous picture of herself attired as a young cavalier.

(b) Locate and explain the following extracts:

- (1) In terms of choice I am not solely led  
By nice direction of a maiden's eyes.
- (2) The man that hath no music in himself  
Nor is not moved with concord of sweet sounds,

- Is fit for treasons, stratagems and spoils.
- (3) How like fawning pubican he looks.
  - (4) There are a sort of men whose visages  
Do cream and mantle like a standing pound,  
And do a wilful stillness entertain  
With purpose to be dressed in an opinion  
Of wisdom, gravity, profound conceit.

## II.

5. What does Carlyle mean by the "sincerity" of Burns? Explain fully the contrast which he draws between Burns and Byron in this respect.

6. Explain carefully the following judgments by Carlyle, illustrating by references to Burns's poems :

(a) To the ill-starred Burns was given the power making man's life more venerable.

(b) The rough scenes of Scottish life, not seen by him in any Arcadian illusion, but in the rude contradiction.

(c) The Ideal world is not remote from the Actual but under it and within it.

7. Give and explain fully Carlyle's judgment on *Tam O'Shanter*.

8. Compare the qualities of Carlyle as a writer with those of Washington Irving.

## III.

9. Note the chief points in Chaucer's description of the *Shipman*. Notice particularly the extent and routes of English commerce which it indicates.

10. Explain carefully the following lines, stating the portrait from which they are taken :

- (a) How shal the world be served?  
Let Austin have his swink to him reserved.
- (b) His reasons he spak ful solemnely.
- (c) It is not honest, it may nat avaunce  
For to delen with no swich poraille.
- (d) A shirreve hadde he been and a contour.
- (e) Wel knew he the olde Esculapius  
And Deiscorides and eek Rufus.



11. (a) Give a brief account of Longfellow's poem of *Nuremberg*.

(b) Explain the following lines in Tennyson's *Palace of Art*:

- (1) Mystic Uther's deeply wounded son.
- (2) And there the Ionian father of the rest.
- (3)                                      and large-brow'd Verulam  
The first of those who know.

12. (a) Quote eight or ten lines from *any one* of the following poems: *The Secret of the Sea*; *The Belfry of Burges*; *The Lady of Shalott*.

(b) Characterize briefly the style of (1) Bacon, (2) Addison, (3) Irving.



**Senior English.**

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I.

1. What are the general qualities of ballad, diction and versification? Characterize any of three of the following as imitations of the ancient ballad: *Alonzo the Brave*, *Eve of St. John*, *Ancient Mariner*, *Lucy Gray*.

2. (a) Describe the characteristics in form and matter of (1) the Shakespearean, (2) the Miltonic sonnet. (b) Compare the poetry of Chaucer with that of Dryden in respect of spirit and the ideals which actuated it.

3. Explain the following extracts and mention the poems in which they occur:

- (a) Fir'd that the house reject him, 'Sdeath I'll print it,  
And shame the fools—your interest, sir, Linton.'
- (b) Superfluous lags the veteran on the stage.
- (c) To Hague or Calais take a waft,  
To mak a tour and tak a whirl,  
To learn *bon ton* and see the warl.
- (d) Say for my comfort languishing in bed,  
Just so immortal Maro held his head.
- (e) With eyes upraised as one inspired,  
Pale melancholy sate retired,  
And from her wild sequestered seat,  
Poured through the mellow horn her pensive soul.
- (f) Now lav'rocks wake the merry morn,  
Aloft on dewy wing;  
The merle, in his noontide bower,  
Makes woodland echoes ring.

II.

4. Give an account of Henry V.'s soliloquy on ceremony in the Fourth Act, showing the general train of the thought, quoting some of the most striking passages, and adding critical remarks on the style.

5. Explain clearly by reference to the character and situation of the speaker, the following passages :

- (a) For oaths are straws, men's faiths are wafer-cakes  
And hold-fast is the only dog; my duck:  
Therefore, Caveto be thy counsellor,  
Go, clear thy crystals.
- (b) We do not mean the coursing snatchers only,  
But fear the main intendment of the Scot,  
Who hath been still a giddy neighbour to us,
- (c) When I bestride him, I soar, I am a hawk; he trots the air;  
the earth sings when he touches it; the basest horn of  
his hoof is more musical than the pipe of Hermes.
- (d) O, Signior Dew should be a gentleman.
- (e) I warrant you shall find, in the comparisons between Macedon  
and Monmouth, that the situations, look you, is both  
alike.

6. What is meant by Unity of Action in a Drama? What was the older or traditional view on the subject, and how did it originate? What is the modern view as illustrated in the Romantic Drama generally? Consider the play of Henry V. from the point of view of Unity of Action.

### III.

7. What are the essential differences between Macaulay and Carlyle in their estimate of Dr. Johnson? Compare Macaulay and Carlyle in point of style.

8. State the main points in Belial's speech. Shew that it is in keeping with the character of the speaker as previously presented.

9. Quote the comparisons which Milton uses to express for us the magnitude of Satan, or (alternatively) the numbers of his host, and comment on their merit.

10.

But he his wonted pride  
Soon recollecting, with high words that bore  
Semblance of worth, not substance, gently raised  
Their fainting courage and dispelled their fears:

Then straight commands shat at the warlike sound  
 Of trumpets loud and clarions be upreared  
 His mighty standard : that proud honour claimed  
 Azazel as his right, a cherub tall ;  
 Who forthwith from the glittering staff unfurled  
 The imperial ensign, which, full high advanced  
 Shone like a meteor streaming to the wind  
 With gems and golden lustre rich emblazed,  
 Seraphic arms and trophies ; all the while  
 Sonorous metal blowing martial sounds ;  
 At which the universal host up sent  
 A shout that tore hell's concave and beyond  
 Frighted the reign of Chaos and old Night.

#### IV.

11. Give an account of Latin of the 4th period as an element in the English language, noticing the following points : (1) the causes of its introduction ; (2) its general value as an element in vocabulary and in literary style ; (3) the use Shakespeare makes of it. Estimate the extent of Latin of the fourth period in the following passage and comment on its literary or stylistic value in this passage :

I felt  
 Incumbencies more awful, visitings  
 Of the Upholder of the tranquil soul  
 That tolerates the indignities of time,  
 And, from the centre of eternity  
 All finite motions overruling, lives  
 In glory immutable.

— Wordsworth.

12. Give a four column analysis of the undermentioned words (*i.e.*, give the original form and meaning, the form and period in which they first appeared in the English language, and the changes they have undergone) : *bishop*, *damsel*, *Westminster*, *lady*.

13. Define gradation. Define mutation. Show how the following words illustrate the processes of syncope, vocalization, and palatalisation : *Lycia*, *monk*, *Scottish*, *lord*, *sumach*.

King Willam wende agen · *tho* al *this* was ido,  
 & bigan sone to grony · & to febly al-so,  
 Vor *trauail* of *the* voul asaut · & vor he was feble er,  
 & parauntre vor wreche al-so · vor he dude so vuele *ther*.  
*Tho* he come to Reins agen · sik he lay sone,  
 His leches lokede is stat · as hor rigt was to done,  
 & iseye & sede also · *that* he ne migte ofscapie nogt.  
*There* was sone sorwe ynou · among is men ybrogt,  
 & he him-sulf deol inou · & sorwe made al-so,  
 & nameliche uor *the* muche wo · *that* he adde aner*the* ydo.  
 He wep on God vaste ynou · & criede him milce & ore,  
 & bihet, *gif* he moste libbe · *that* he nolde misdo nammore.

(a) Turn the above into modern English prose.

(b) Point out (1) the French words used in this passage, (2) the words of Saxon origin which have become obsolete.

(c) Explain fully the forms of the following words:—  
*sone* (l. 2), *hor* (l. 6), *ynou* (l. 8), *ybrogt* (l. 8), *wep* (l. 11),  
*nolde* (l. 12).

**Junior History.**

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1. Gaizot says that the history of the Roman Municipia may be divided into three periods. State these periods, and the distinguishing features of each period.

2. Hallam classes the privileges of French vassals under five heads. Explain these.

3. What in the Middle Ages were the privileges of the Gallican Church? How did the crown encroach on these privilege? What circumstances aided the crown?

4. Describe the effects on the Papacy of (a) the spirit of Canon Law, (b) the growth of Monasticism.

5. What was the origin of the Fief? Mention the incidents of Feudalism.

6. What were the functions and the powers of the Parliament of Paris?

7. At the time of the transference of the crown of the Holy Roman Empire from the French to the German kings Italy was divided into three parts. What distinguished these parts?

8. In the reign of Henry III. three parties existed in France. Mention their distinctive character.

9. What changes in the map of Europe were made by Napoleon (1805-08)?





**Senior History.**

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1. Who were the members of the County Court? What were its functions?

2. Hallam says that in the reign of Edward III. parliaments established on a firm footing three essential principles of our government. Explain these.

3. What occasioned the Peasants War in 1381? What changes were then made in the cultivation of the soil?

4. What was the condition of parliament under the Tudors?

5. What were the effects of the confiscation of the Monasteries by Henry VIII.?

6. Account for the indifference towards literature which characterized the Middle Ages.

7. Give an account of commerce during the Middle Ages.

8. How was the charge against the Earl of Strafford converted into a charge of treason?

9. What was the condition of the British electorate before the Reform Bill of 1832?

10. Compare cabinet government in the United States with cabinet government in Britain.

11. What circumstances induced the framers of the Constitution of the United States to separate the executive from the legislature? What advantages are derived from their union in the British Constitution?

12. Criticise the terms of the Quebec Act of 1774, and also the Constitutional Act of 1791.



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**Junior Philosophy.**

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(Intra-murals will answer any seven of the following ten questions.)

1. What is the function of doubt in philosophy? Explain the view of either (a) Carlyle or (b) Descartes.

2. What is Anaxagoras' conception of creation? Examine the theory.

3. State and interpret the Socratic idea of *virtue*. Give Aristotle's examination of this idea and your own view.

4. How does Plato deduce the categories of Being and Unity in the *Theætetus*? What does he mean by Not-Being?

5. What is the philosophy of the Cynics? Add criticisms.

6. Is it sufficient to describe God as First-Cause? Explain.

7. Outline Aristotle's definition of soul; give and justify your opinion as to its value.

8. Why, according to Aristotle, must we think of the virtues as higher and lower? What truth is there in his view?

9. Discuss Aristotle's theory of Distributive and Corrective Justice.

10. What does Aristotle mean by happiness? Explain the application to it of the term "self-sufficiency." In what sense can the gods be called "happy?"

(Extra-murals will answer any three of the foregoing ten questions, together with questions 11, 12, 13 and 14 below.)

11. Outline Plato's theory of education, laying special emphasis on (a) its aim and (b) the value of scientific knowledge.

12. What is meant by the Stoic maxim that man should "live in conformity with nature?"

13. In what sense is Descartes entitled to be called the founder of modern philosophy?

14. What, according to Berkeley, is an "idea"? Examine his doctrine.

**Senior Philosophy.**

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(Only seven of these questions are to be done.)

1. (a) Distinguish between dogmatism and scepticism. (b) Show that the dogmatist is a sceptic and the sceptic a dogmatist. (c) Illustrate from the history of Greek philosophy the relations of dogmatism, scepticism and idealism. (d) Taking the opposite principles of necessity and freedom explain what is meant by saying that "a true philosophy must be the synthesis of dogmatism and scepticism."

2. (a) Show how Mill, starting from supposed "particular experiences," is led to deny universal and necessary knowledge. (b) Is the view of Descartes that universal truths are "innate" or *a priori* a satisfactory answer? (c) Explain the doctrine that particular experiences involve a universal element.

3. (a) What does Locke mean by *perception*, *idea*, *simple idea*, *complex idea*, *nominal essence*. (b) Give the corresponding terms used by Hume. (c) Knowledge is in Locke (1) "a perception of the agreement or disagreement of any of our ideas," (2) agreement of our ideas with the external object, (3) in mathematics agreement of the external object with our ideas. Point out the difficulties to which these different views of knowledge lead, Locke's way of evading them, and the impossibility of doing so.

4. (a) How did Berkeley dispose of Locke's external "substratum?" (b) Explain how Hume was led to extend this denial to the *connexion* of objects. (c) What does he mean by calling causation a "philosophical re-

lation?" (d) "A causal judgment involves one impression and one idea." Why? (e) How does Hume explain the apparent connection of events? (f) Criticise his doctrine.

5. (a) Distinguish between the creationist, the Darwinian and the transmutational view of the origin of life. (b) Contrast the pre-Darwinian with the Darwinian doctrine of "species." (c) Sketch the doctrine of natural selection, giving Darwin's reasons for extending it to man. (d) Show that it implies a higher form of teleology than that held by Paley.

6. (a) Explain how Leibnitz is led to hold that all real beings are *monads*. (b) Why does he distinguish between sub-conscious states, sense-perceptions and thought (apperception)? (c) What is his view of Space and Time? (d) Why do different beings "represent" the world differently? (e) Explain the "pre-established harmony," showing how it applies to the relations of soul and body.

7. (a) Show how the development of modern thought brought before Kant's mind the problem to reconcile necessity and freedom. (b) Why does he refuse to admit that man is exempted from the law of natural causation? (c) Explain the sense in which Kant may be called "the Copernicus of philosophy." (d) Contrast the doctrine that "understanding makes nature" with Hume's view of knowledge.

8. (a) State Kant's view of space and time, and show how from it he explained the *a priori* synthetic judgments of mathematics. (b) What are the categories, and how from them are the *a priori* synthetic judgments of physics explained? (c) Why does Kant hold that the "system of experience" is not identical with ultimate reality? (d) Show how he infers from this the possibility of a free cause.



9. (a) How does Kant find in the conditions of knowledge evidence of the independence of the self as "subject?" (b) Granting a free willing subject, how must its effects appear to the knowing subject? (c) How does practical reason establish the reality of freedom? (d) Show the inconsistency of Kant's doctrine of freedom.

10. (a) Explain what Kant means by the "manifold of sense." (b) In what different senses is the term "experience" used (1) in popular speech, (2) by the sensationists, (3) by Kant. (c) Criticise Kant's view. (d) State and criticise Kant's contention that "the will as a faculty of desire is simply one of the many causes in the world of nature."

11. (a) Distinguish between Egoistic and Universalistic hedonism. (b) One man saves another from drowning for the sake of a reward, another from benevolence. How would the moral value of (1) the act, (2) the agent, be estimated by the egoistic hedonist, the universalistic hedonist and Kant respectively? (c) How would a true theory estimate them?

12. (a) Show how Kant applies his first formula to the following cases: (1) suicide, (2) false promises, (3) self-culture, (4) benevolence. (b) What is the imperfection of the criterion regarded as a logical principle? (c) Show that Kant introduces a different principle when he applies the formula to duties of imperfect obligation. (d) Explain the real basis of both forms of obligation.



PASS.

**Senior Philosophy**—(Extra-mural).

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(Only seven of these questions to be done).

1. "The nature of knowledge is bound up with the nature of existence." Show that this is true, and apply it to bring out the difference between the point of view of philosophy, and that of the special sciences.

2. "The only true knowledge is of laws, not of causes." (a) What significance has this distinction for Comte? (b) Discuss the validity of the distinction.

3. Induction is "the process by which we infer that what we know to be true in a particular case or cases will be true in all cases which resemble the former in certain assignable respects." Examine this view of induction.

4. "Events seem *conjoined*, but never *connected*." (a) What significance has this distinction for Hume? (b) Examine its validity.

5. Give an outline of Darwin's theory of "natural selection" as applied to animals generally, and show that this theory assumes a purposive tendency in nature.

6. (a) How does the theory of "natural selection" attempt to explain morality? (b) Do you consider this explanation satisfactory? Give reasons for your answer.

7. Discuss Spencer's view as to the relation of subject and object.

8. Matter contains "the promise and potency of all kinds and qualities of life." Bring out clearly the ambiguity in this statement.

9. Can man act from pure impulse? Justify your answer.

10. (a) How did Descartes reach his *cogito ergo sum*?  
(b) In what sense is it true, and in what sense is it false?

11. "There are no rights apart from society." Justify this statement.

12. State and examine Kant's idea of freedom.

**Junior Political Science.**

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1. Distinguish and relate economic value, wealth, and capital.
2. How does modern division of labour affect (a) the labourer, (b) the capital invested?
3. Outline the growth of exchange, with special reference to the medium of exchange.
4. What are the chief functions of the modern banks in America and Europe?
5. What are the chief advantages and disadvantages of unrestricted competition?
6. What influence has the modern extension of economic interests upon international relations?

*Alternative Questions for Extra-mural Students.*

- (a) Why does not the introduction of new machinery lessen the employment of labour?
- (b) Why was so much importance attached to the Law of Diminishing Returns during the greater part of the Nineteenth Century? Why is it less important at present?



**Senior Political Science.**

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*Intra-mural.*

1. What is the full significance of Aristotle's statement that man is naturally a political animal?
2. How does Aristotle's view that men should be "able not only to engage in business rightly but also to spend their leisure nobly," affect his theory of education?
3. What is the nature and place of sovereignty in Rousseau's theory of the state?
4. What was Machiavelli's chief contribution to the progress of Political Science?
5. What is the ultimate justification for Democracy as a form of Government?
6. Distinguish between the practical and ultimate basis of individual rights.





**Senior Political Science.**

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*Extra-mural.*

1. It is said to be just to obey the laws. But laws are sometimes mistaken, or unjust. Then either it is just to obey unjust laws, or it is just to refuse to obey certain laws. How far does Plato succeed in dealing with this difficulty? How can it be dealt with?

2. Point out the essential defect of Plato's plan for making the citizens devoted to the public interest by depriving them of all personal interests.

3. Critically examine Rousseau's conception of the state of nature and its relation to civilization.

4. Distinguish the true and false elements in Rousseau's idea that in a perfectly free state certain citizens may nevertheless require to be forced to be free.

5. What are the chief evils which threaten modern society through increased state interference?

6. To what extent is the state and its functions more than simply a means to the welfare of society?



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**Junior Mathematics.**

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(Candidates must make a minimum of 25 per cent. on each section and 40 per cent. on the whole.)

I.

1. In algebra give (a) the law of signs, (b) the commutative law, (c) the distributive law, and (d) the index law.

2. (a) Write the type terms which occur in the expansion of  $\{\Sigma a^3 - 3\Sigma a^2b\} \Sigma ab$ .

(b) With four letters  $a b c d$ , find the coefficient of  $a^2b^2c^2$  in (a).

3. Separate  $x^2 + px + q$  into factors linear in  $x$ , and thence find the roots of  $ax^2 + bx + c = 0$ .

4. (a) Find the three roots of the equation  $x^3 - 1 = 0$ .

(b) If  $w, w^2$  be the imaginary roots of (a) show that  $(1-w)^4(1+w^2) = -9$ .

5. Rationalize denominators and simplify

$$(a) \frac{1\sqrt{2}}{1\sqrt{2} + 1\sqrt{6}}; (b) \frac{1\sqrt{3} + 2\sqrt{2}}{1\sqrt{6} - 4\sqrt{2}}$$

6. (a) Explain the statement " $a$  varies as  $b$ ."

(b) The bulk of a body varies directly as its weight and inversely as its density. If 3 lbs. of a body with density 4 occupies 1 cubic foot, how many cubic feet will be occupied by 10 pounds of a body having density 6?

7. Solve the equations (a)  $x + y + z = 1$ ,  $2x + 2y + z = 2$ ,  $x - y - z = 4$ . (b)  $x^2 - y^2 = 120$ ,  $xy = 91$ .

8. Find the sum of 100 terms of  $1 + 1.1 + 1.2 + \dots$  in A.P.

## II.

9. Give all the conditions of congruence of two triangles.

10. (a) "A point of contact is a double point." Explain this.

(b) Two circles can intersect in only two points, and can therefore touch in only one point.

11. Show how to inscribe the incircle to a triangle; and if  $r$  be its radius show that  $\triangle = rs$ .

12. (a) In the triangle acute-angled at  $A$ ,  $a^2 = b^2 + c^2 - 2bc_1$  where  $c_1$  is the projection of  $c$  on  $b$ .

(b) The sides of a triangle are 26, 28, 30. Find the perpendicular to side 30, and thence the area of the triangle.

13. The flag at the top of the mast of an approaching steamer is just seen upon the horizon. If the mast is 100 feet high, and the earth's diameter is 7960 miles, find the distance of the steamer from port.

14. (a) Show how to divide a line in extreme and mean ratio.

(b) If the line be 12 inches find the longer part.

15. (a) Show how to divide a given segment similarly to a given divided segment.

(b) Explain the action of the "sector" in dividing segments.

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**Senior Mathematics.**

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(Candidates must make at least 20 per cent. on each section and 40 per cent. on the whole.)

I.

1. (a) Find a segment which with a given segment may make a rectangle equal to a given rectangle.

(b) A rectangle being given construct an equal rectangle with the diagonal as one of its sides.

2. Two similar rectilinear figures have any two line-segments from the one proportional to homologous segments from the other. Hence if  $c$   $r$  be the circumference and radius of a circle  $\frac{c}{r}$  is a constant.

3.  $a$   $b$   $c$   $d$  are sides of a concyclic quadrangle. Find the cosine of the angle between  $a$  and  $b$ .

II.

4. (a) There can be but 5 regular polyhedra. Prove this and describe them. (b) Classify the regular polyhedra as connected by reciprocation.

5. Find the diagonal of a given *ppd.* by a plane construction.

6. Find the radii of the three spheres to a tetrahedron and show that  $Rr = \rho^2$ .

III.

7. (a) Give the relation existing between a radian and a degree. (b) Two towns with the same longitude are 175 miles apart. Find their difference in latitude, the earth's diameter being 7,960 miles.

8. Prove (a)  $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$ . (b)  $\cos A = \frac{\sqrt{s(s-a)}}{bc}$ .

(c)  $\tan \frac{1}{2}(B-C) = \frac{b-c}{b+c} \cot \frac{1}{2}A$ .

IV.

9. Find the sum of  $n$  terms of an  $A. P.$  whose 5th term is 8 and 10th term 20.

10. (a) Establish the Binomial theorem for  $n$  integral.

(b) Find the coefficient of  $x^n$  in the expansion of  $(1-x+x^2-x^3+\dots)^n$ .

11. Separate  $\frac{7x}{(x+2)(x-3)^2}$  into its partial fractions.

12. Sum to  $n$  terms the series whose  $n$ th term is  $n^3 - n^2 + n - 1$ .

13. Find the first 6 convergents to 0.791574.



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**Junior Physics.**

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*Properties of Matter, Dynamics, Heat, Magnetism, and  
Frictional Electricity.*

1. Define time, the unit of time, and find the ratio of the sidercal to the mean solar day.

2. How do you deduce the equation  $s=ut+\frac{1}{2}at^2$  in uniformly accelerated motion? A body whose acceleration is 10, goes 6 metres in 10 seconds; what is the initial speed?

3. Enunciate Newton's law of gravitation. If the earth's mean radius be 20,900,000 feet, and the mean attraction of the earth for a pound of matter at the sea-level be 32.23 poundals, find the gravitation between two particles 1 foot apart, each being 1 pound.

4. How much platinum (s.w. 21) will a kilogram of cork (s.w.  $\frac{1}{4}$ ) keep from sinking in the sea (s.w. 1.027)? Name and enunciate the physical principle assumed.

5. What is a siphon? Explain its action. How is its action affected by changes in the atmospheric pressure?

6. A cylindrical diving-bell, 3 meters high, is lowered to the bed of a river 10 meters deep. If 75 cm. be the barometric pressure, find the height of water in the bell, and compare the mass of air in the bell with what must be forced in to keep the water out.

7. To find the magnitude, direction, and line of action of the resultant (1) of two like parallel forces, (2) of two unlike parallel forces.

8. Prove that the coefficient of superficial expansion is just twice the coefficient of linear expansion. A copper

wire is found to be 0.034 cm. longer at  $25^{\circ}$  than it is at  $5^{\circ}$ ; what would be its length at  $0^{\circ}$ ? Given  $k_1$  for copper  $= 1.7 \div 10^5$ .

9. If the barometer falls from 75 cm. to 70 cm., what must be the change in the temperature of a body of air originally at  $17^{\circ}$  in order that its volume may remain constant?

10. Distinguish between thermometry and calorimetry. If 20 grams of steam at  $100^{\circ}$  be condensed in a metal worm surrounded by 200 grams of water at  $10^{\circ}$ , find the resultant temperature; given the l.h. of the steam to be 537, and the thermal capacity of the worm to be equal to that of 10 grams of water.

11. Without a loadstone or an artificial magnet, how could you magnetize a bar of iron?

12. What intimate connection is there between storms in the sun's atmosphere, and the earth's magnetism? Tell all you know about this connection.

13. Describe two experiments to illustrate the power of points in dissipating an electric charge. How is this power practically taken advantage of?

14. Enunciate the fundamental law in the measurement of electrical force, and define the unit quantity of electricity.

15. Define potential and the unit of electric potential. How is the electric potential of the atmosphere at any place practically found?

**Senior Physics.**

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*Dynamics, Electricity, Light, and Sound.*

1. Describe (drawing a figure) the electrolysis of water. Enunciate the principal laws of electrolysis.

2. The internal resistance of each cell of a voltaic battery is 2 ohms, and the external resistance is 12 ohms ; show how to arrange the cells so as to give the greatest current. If the potential of each cell be  $1\frac{1}{2}$  volt, find the current produced.

3. When and by whom was the first experiment in magneto electricity made? Give the general law for the production of magneto electric currents.

4. A lamp of 9 candle-power is placed at a distance of 4 yards from a standard candle ; find the two positions in which a screen may be placed so as to be equally illuminated by the lamp and the candle.

5. Define an index of refraction. How is it proved that the product of the indices of refraction of two media relatively to one another is unity?

6. Find the relation between the indices of refraction of two media relatively to one another and their absolute indices of refraction.

7. What are the interference and inflection of sound? How would you illustrate these experimentally?

8. Define the 3 properties of a musical note. What is the relation of these properties to the atmospheric waves conveying the notes to the ear?

9. A body of 4 pounds hanging vertically draws a

body of 6 pounds up a plane inclined at an angle of  $30^\circ$  to the horizontal; find the tension of the connecting string, and the nature of the motion.

10. Find in 9 the motion of the centre of mass, and the total acceleration of momentum.

11. Write down the dynamical dimensions of pressure-intensity. If the fundamental units be a metre, a minute, and a kilogram, find in barads the unit of pressure-intensity.

12. Find the mechanical advantage (1) of the wheel and axle, (2) of the Chinese wheel.

13. Enunciate the conservation of momentum. What do we know from it about the motion of the centre of mass of the solar system?

*Alternative questions for extra-murals only.*

Answer 9 and 10 when the plane is rough, and the coefficient of friction is  $\frac{1}{5}$ .

**Junior Botany.**

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**FIRST PAPER.**

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1. Describe a foliage leaf under the following heads:—  
(1) Leaf-veins and their uses, (2) epidermis and its uses, (3) stomata and their uses.
2. Leaves are exposed to dangers from (1) intense light, (2) drought, and (3) cold. Describe any two ways in which they defend themselves against any one of these.
3. Describe any three ways in which plants ward off enemies.
4. Explain any three ways in which plants make use of animals.
5. Why do we have rich flowering herbs in rich woodlands?
6. Mention the four principal ecological factors which influence the organization of plant societies and explain how any one of them may affect the plants of a locality.
7. Describe three ways in which hydrophyte societies are adapted to their environment.
8. Explain how transpiration and respiration differ from each other.
9. Explain the process of photosynthesis and state its results.
10. What are the conditions necessary for the germination of seeds?



**Junior Botany.**

**SECOND PAPER.**

1. Make a list of the plants in the bundle submitted in the following form :—

No.	Order.	Genus.	Species.

2. Select one specimen of each of the following orders and describe it as fully as you can in the tabular form given in the Text-book :—

1. Ranunculaceæ.
2. Compositæ.
3. Labiataë.
4. Liliaceæ.





**Animal Biology.**

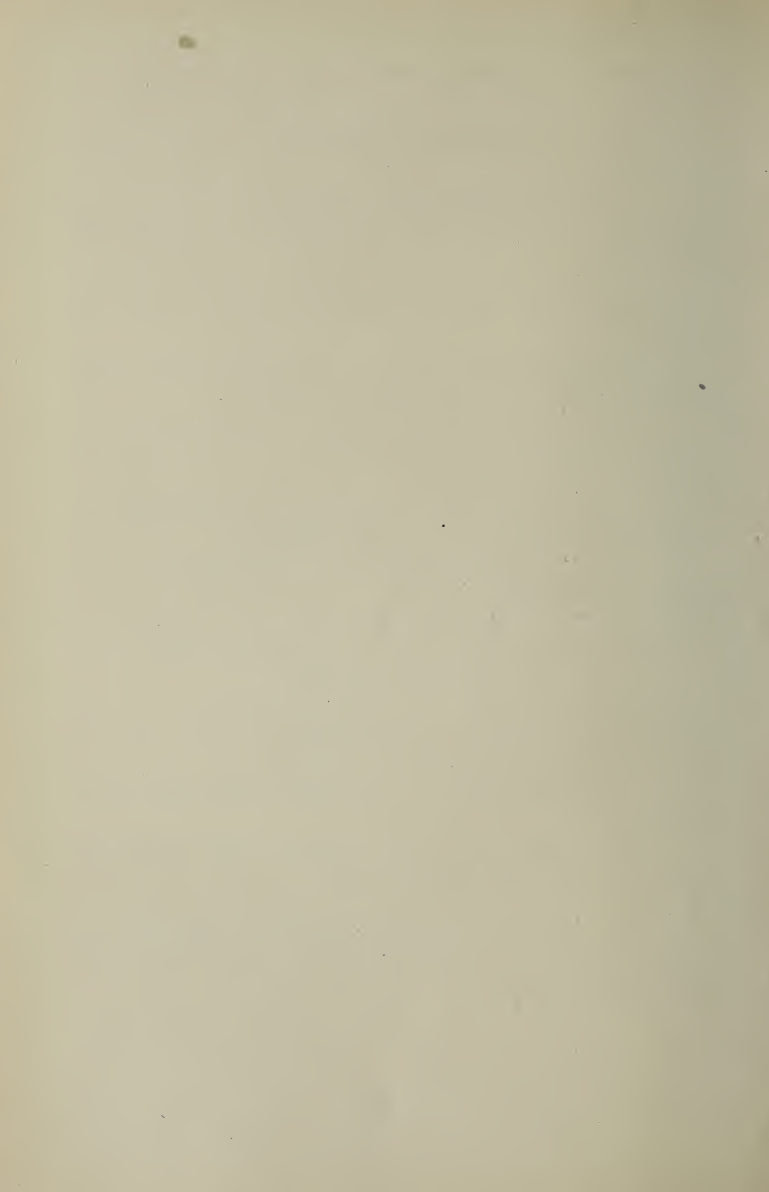
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(Extra-murals will omit questions 1, 2, 6, 7.)

1. Give examples of the interdependence of plant and animal life.
2. Point out differences between excreted matter and secreted matter.
3. Specify the characters of the protozoa, and indicate the relationship of its classes to each other.
4. Write notes on the structure and relationship of spiders, scorpions and mites.
5. Describe the vertebral column of a bony fish, and point out variations in birds and mammals.
6. How has the respiratory centre been located? Explain its functions.
7. Describe the digestion of carbohydrate food.

*For Extra-murals.*

1. Name the bones composing the cranium of the catfish, and indicate their relative position.
2. Compare the brain of the catfish with that of the menobranch.
3. Describe the skin of the snapping turtle and compare with that of the cat or rabbit.
4. Describe the microscopic structure of muscle tissue. Give a drawing of a transverse section of the intestine of a fish or frog.



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**Junior Chemistry.**

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1. (a) How can the order be determined in which chlorine, bromine, and iodine stand in their affinity for potassium? (b) What are the natural sources of bromine and iodine? (c) Compare and contrast the oxygen compounds of the halogens.

2. The gas density of phosphorus is 4.3. The percentage of chlorine in a chloride of phosphorus is 77.46, and the gas density of this compound is 4.76. Calculate (a) the equivalent weight of phosphorus, (b) the molecular weight of the chloride, (c) the accurate atomic weight of phosphorus, (d) the molecular formula of phosphorus, and (e) the formula of the chloride. [Cl=35.5.]

3. 0.2 gramme of iron wire by solution in acid gave 83.7 c.c. of hydrogen at 12°C and 750 mm. pressure. What percentage of pure iron is contained in the sample? [Fe=56.]

4. Describe cases in which the following substances act as reducing agents, and write the equations:—(a) Hydrogen, (b) sulphurous acid, (c) carbon, (d) copper, and (e) iron.

5. (a) Describe carefully an experiment for finding the composition by volume of ammonia gas. (b) Write an equation for the reaction, and mark the relative volumes of the gases involved.

6. When ammonium chloride is volatilised, its gas density is found to be only half that calculated from the formula  $\text{NH}_4\text{Cl}$ . (a) How is this explained? (b) Show that the explanation agrees with the molecular theory.

(c) Mention a similar anomaly in the case of osmotic pressure, and explain the anomaly.

7. Explain the nature of *the periodic law of the elements*.

8. Write formulas for the following compounds: (a) Nitrates of sodium, calcium, and iron, (b) Sulphates of potassium, magnesium, and calcium, (c) ammonium phosphate, (d) alcohol, and (e) sugar.

9. Write equations for the following reactions:

(a) Burning ammonia in oxygen.

(b) Action of slaked lime on ammonium chloride.

(c) Action of caustic soda on sulphuric acid.

(d) Action of hydrochloric acid on calcium carbonate.

(e) Action of sulphuretted hydrogen on solution of cupric sulphate.

10. Write an outline of the manufacture of *one* of the following: *sulphuric acid, soda, water gas, methyl alcohol, acetic acid*.

*N.B.—Give equations, where possible.*

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**Senior Chemistry.**

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**A.**

1. Describe, with equations, three general methods for making amines.

2. What are the principal chemical changes which take place during the processes of malting and brewing?—Equations.

3. Outline the chemistry of two processes for manufacturing acetic acid.

4. Give as complete an account as you can (*a*) of the composition of petroleum, and (*b*) of the products obtained from it.

5. Write equations for the following:

(*a*) Conversion of acetic acid into acetone.

(*b*) Conversion of acetone into isopropyl chloride.

(*c*) Preparation of ethyl mercaptan.

(*d*) Action of nascent hydrogen on methyl cyanide.

(*e*) Action of nitrous acid on (1) methylamine, (2) phenylamine.

**B.**

6. Discuss the modifications in the properties of metals produced by alloying.

7. Outline two processes now used for reduction of metals by the electric current, giving in particular the chemistry of the processes.

8. Describe three of the more important compounds of calcium.

9. Compare and contrast the compounds of copper, silver, and gold.

10. Write equations for the following :

(a) Dissolution of stannic sulphide in ammonium sulphide.

(b) Action of concentrated hot sulphuric acid on silver.

(c) Burning of zinc in air.

(d) Action of ammonia on mercurous chloride.

(e) Dissolution of calcium phosphate in hydrochloric acid.



*Queen's University Examinations: April, 1902.*

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FACULTIES OF ARTS AND PRACTICAL SCIENCE.

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PASS.

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**Elementary Mineralogy and Blowpipe Analysis.**

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1. Sketch the tetrahedron and describe the form.
2. By what forms are the following minerals recognized :—(a) galena, (b) pyrite, (c) magnetite, (d) corundum, (e) calcite, (f) quartz, (g) scapolite, (h) pyroxene.
3. Describe the mineral species, (a) sphalerite, (b) fluorite, (c) apatite.
4. Give the blowpipe characters of (a) gypsum, (b) pyrolusite, (c) limonite, (d) barite, (e) tetrahedrite.
5. Distinguish (a) chromite and ilmenite, (b) specularite, graphite and molybdenite, (c) sphalerite and cassiterite, (d) apatite and pyroxene, (e) corundum and feldspar, (f) pyrite and chalcopyrite.
6. Determine by blowpipe the numbered specimens, and by field tests the lettered specimens.



FACULTIES OF ARTS AND PRACTICAL SCIENCE.

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PASS.

**Geology.**

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1. Name three examples of each of the three great classes of rocks.

2. Draw up a list of (a) secondary, (b) accessory minerals found in igneous rocks.

3. Show by means of diagrams (a) how the thickness of inclined strata can be determined, (b) the different ways in which veins may be affected by faults.

4. Give an account of the formation of soil and name the chief mineral fertilizers.

5. Give a list of five economic minerals of any three of the provinces of Canada.

6. "Thus, in Carboniferous times we observe a striking difference between the development of the eastern and western halves of the (North American) continent." Explain.

7. What is meant by the "Appalachian revolution"?

8. Characterize, briefly, each of the following genera : —Belemnite, calymene, columnaria, lingula, zaphrentis.

9. Describe, briefly, the rise and development of mammalian forms during Mesozoic and Cainozoic times.

10. Name the hand specimens labelled A, B, C, D, E, F, respectively.



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Arts  
HONOUR PAPERS.

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PRELIMINARY HONOURS.

**Latin.**

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*Roman History.*

(Of the first six questions any four, but not more than four, should be attempted, and dates must be given as far as possible.)

1. Trace briefly the course of Roman conquest within the limits of Italy.
2. Write an account of the causes, incidents and results of the First Punic War.
3. What evils in Roman society did the Gracchi attempt to remedy and in what ways?
4. Trace the steps by which the Roman power became supreme in Macedonia and Greece.
5. Write the life of Cnaeus Pompeius Magnus after his return from the Mithradatic wars.
6. Comment upon the following :—*Comitia tributa, municipium, lex Hortensia, Sejanus ducitur unco, Helvidius Priscus.*

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7. Describe the events

either, (a) of the year 69 A.D.

or, (b) of the reign of Trajan.





*Queen's University Examinations: April, 1902.*

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PRELIMINARY AND FINAL HONOURS.

**Latin.**

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I.

*For Preliminary and Final Honour Candidates.*

Translate into Latin :

The Pelhams were really sincere in their endeavours to remove the strong prejudices which had taken root in the King's mind. They knew that Pitt was not a man to be deceived with ease or offended with impunity. They were afraid that they should not be long able to put him off with promises. Nor was it their interest so to put him off. There was a strong tie between him and them. He was the enemy of their enemy. The brothers hated and dreaded the eloquent, aspiring, and imperious Granville. They had traced his intrigues in many quarters. They knew his influence over the royal mind. They knew that as soon as a favourable opportunity should arrive, he would be called to the head of affairs. They resolved to bring things to a crisis; and the question on which they took issue with their master was, whether Pitt should or should not be admitted to office. MACAULAY: *Essay on the Earl of Chatham.*

II.

*For Final Honour Candidates only.*

During more than a century after the institution of the Tribuneship, the Commons struggled manfully for the removal of the grievances under which they laboured; and, in spite of many checks and reverses, succeeded in wringing concession after concession from the stubborn aristocracy. At length, in the year of the city 378, both parties mustered their whole strength for their last and most desperate conflict. The popular and active Tribune, Caius Licinius, proposed the three memorable laws which are called by his name, and which were intended to redress the three great evils of which the Plebeians complained. He was supported, with eminent ability and firmness, by his colleague, Lucius Sextius. The struggle appears to have been the fiercest that ever in any community terminated without an appeal to arms. If such a contest had raged in any Greek city, the streets would have run with blood. MACAULAY: *Introduction to Virginia.*



PRELIMINARY AND FINAL HONOURS.

Latin.

(Unseen 1 and 2; prepared 3 and 4.)

A.

Translate into English :

1. Caesar sollicito per vasta silentia gressu  
vix famulis audenda parat: cunctisque relictis,  
sola placet Fortuna comes. tentoria postquam  
egressus, vigilum somno cedentia membra  
transiluit, questus tacite quod fallere posset.  
litora curva legit, primisque invenit in undis,  
rupibus exesis haerentem fune, carinam.  
rectorem dominumque ratis secura tenebat  
haud procul inde domus, non ullo robore fulta,  
sed sterili iunco, cannaque intexta palustri,  
et latus inversa nudum munita phaselo.  
hæc Caesar bis terque manu quassantia tectum  
limina commovit. molli consurgit Amyclas,  
quem dabat alga, toro. 'quisnam mea naufragus,' inquit,  
'tectata petit? aut quem nostrae Fortuna coegit  
auxilium sperare casae?' sic fatus, ab alto  
aggere iam tepidae sublato fune favillae,  
scintillam tenuem commotos pavit in ignes:  
securus belli: praedam civilibus armis  
scit non esse casas.

2. quid ergo? non erit aliquis qui sapienti facere temptet iniuriam? temptabit, sed non perventuram ad eum. maiore enim intervallo a contactu inferiorum abductus est, quam ut ulla vis noxia usque ad illum vires suas perferat. etiam cum potentes et imperio editi et consensu servientium validi nocere intendent, tam citra sapientiam omnes eorum impetus deficient, quam quae nervo tormentisve in altum exprimuntur, cum extra visum exsilierint, citra coelum tamen flectuntur. quid? tu putas tum, cum stolidus ille rex multitudine telorum diem obscuraret, ullam sagittam in solem incidisse? aut demissis in profundum catenis Neptunum potuisse contingi? ut coelestia humanas manus effugiant et ab his qui templa diruunt ac simulacra conflant, nihil divinitati nocetur, ita quicquid fit in sapientem proterve, petulanter, superbe, frustra temptatur. "at satius erat neminem esse qui facere vellet." rem difficilem optas humano generi, innocentiam. et non fieri eorum interest, qui facturi sunt, non eius, qui pati ne si fiat quidem potest.

SENECA, *Nec iniuriam nec contumeliam accipere sapientem*, IV.

3. quantum distet ab Inacho  
Codrus pro patria non timidus mori,

narras et genus Aeaci  
 et pugnata sacro bella sub Ilio :  
 quo Chium pretio cadum  
 mercemur, quis aquam temperet ignibus  
 quo praebente domum et quota  
 Paelignis caream frigoribus, taces.  
 da lunae propere novae,  
 da noctis mediae, da, puer, auguris  
 Murenæ : tribus aut novem  
 miscentur cyathis pocula commodis.  
 qui Musas amat impares,  
 ternos ter cyathos attonitus petet  
 vates ; tres prohibet supra  
 rixarum metuens tangere Gratia  
 nudis iuncta sororibus.  
 insanire iuvat : cur Berecynthiae  
 cessant flamina tibiae ?  
 cur pendet tacita fistula cum lyra ?  
 parcentes ego dexteras  
 odi : sparge rosas ; audiat invidus  
 dementem strepitum Lycus  
 et vicina seni non habilis Lyco.  
 spissa te nitidum coma,  
 puro te similem, Telephe, Vespero,  
 tempestiva petit Rhode :  
 me lentus Glycerae torret amor meae.

HORACE, *Od.* iii., 19.

4. haud pigebit referre in Falanio et Rubrio, modicis equitibus Romanis, praetemptata crimina, ut quibus initiis, quanta Tiberii arte gravissimum exitium inreperit, dein repressum sit, postremo arserit cunctaque corripuerit, noscatur. Falanio obiciebat accusator, quod inter cultores Augusti, qui per omnes domos in modum collegiorum habebantur, Cassium quendam mimum corpore infamem adscivisset, quodque venditis hortis statuam Augusti simul mancipasset. Rubrio crimini dabatur violatum periurio numen Augusti. quae ubi Tiberio notuere, scripsit consulibus non ideo decretum patri suo caelum, ut in perniciem civium is honor verteretur. Cassium histrionem solitum inter alios eiusdem artis interesse ludis, quos mater sua in memoriam Augusti sacrasset ; nec contra religiones fieri, quod effigies eius, ut alia numinum simulacra, venditionibus hortorum et domuum accedant. ius iurandum perinde aestimandum quam si Iovem fefellisset : deorum iniurias dis curae.

TACITUS *Annals*, i., 73.

5. Write a brief account of Civilis.

6. Translate and explain :

- (a) Judaeorum mos absurdus sordidusque.
- (b) operae Clodianae pontes occuparant.
- (c) nosti Calvum, ex Nanneianis illum.
- (d) Amalthaea.

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PRELIMINARY AND FINAL HONOURS.

Latin.

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B.

(1 and 2 unseen ; 3 and 4 set books.)

Translate :

1. o mihi non dubios inter memorande sodales,  
quique, quod es, vere, Care, vocaris, ave.  
unde saluteris, color hic tibi protinus index  
et structura mei carminis esse potest.  
non quia mirifica est, sed quod nec publica certe :  
qualis enim cumque est, non latet esse meam.  
ipse quoque, ut chartae titulum de fronte revellas  
quod sit opus, videor dicere posse, tuum.  
quamlibet in multis positus noscere libellis,  
perque observatas inveniere notas.  
prodent auctorem vires, quas Hercule dignas  
novimus atque illi, quem canis, esse pares.  
et mea Musa potest proprio deprensa colore,  
insignis vitiis forsitan esse suis.  
tam mala Thersiten prohibebat forma latere,  
quam pulchra Nireus conspiciendus erat.

OVID, *ex Ponto*, IV. 13. 1—16.

2. quid? quaeris, Carneades, cur haec ita fiant aut qua arte perspicui possint? nescire me fateor, evenire autem te ipsum dico videre. casu, inquis. itane vero? quidquam potest casu esse factum, quod omnes habet in se numeros veritatis? quattuor tali iacti casu Venerium efficiunt. num etiam centum Venerios, si cccc talos ieceris, casu futuros putas? aspersa temere pigmenta in tabula oris lineamenta effingere possunt. num etiam Veneris Coae pulcritudinem effingi posse aspersione fortuita putas? sus rostro si humi A litteram impresserit, num propterea suspicari poteris Andromacham Ennii ab ea posse describi? fingeat Carneades in Chiorum lapicidinis saxo diffisso caput exstitisse Panisci: credo aliquam non dissimilem figuram, sed certe non talem, ut eam factam a Scopae diceret. sic enim se profecto res habet, ut numquam perfecta veritatem casus imitetur. at non numquam ea, quae praedicta sunt, minus eveniunt. quae tandem id ars non habet? earum dico artium, quae coniectura continentur et sunt opinabiles.

3. cum primum pavido custos mihi purpura cessit  
bullaque succinctis Laribus donata pependit ;  
cum blandi comites totaque inpune Subura  
permisit sparsisse oculos iam candidus umbo ;  
cumque iter ambiguum est et vitae nescius error  
deducit trepidas ramosa in compita mentes,  
me tibi supposui : teneros tu suscipis annos  
Socratico, Cornute, sinu ; tum fallere sollers  
apposita intortos extendit regula mores,  
et premitur ratione animus vinctique laborat  
artificemque tuo ducit sub pollice vultum.  
tecum etenim longos memini consumere soles,  
et tecum primas epulis decerpere noctes :  
unum opus et requiem pariter disponimus ambo,  
atque verecunda laxamus seria mensa.

PERSIUS, v. 30—44.

Explain the allusions in *iter ambiguum* and *sub pollice*.

4. quid ego de commentariis infinitis, quid de innumerabilibus chirographis loquar ? quorum etiam institores sunt, qui ea tamquam gladiatorum libellos palam venditent. itaque tanti acervi nummorum apud istum construuntur, ut iam expendantur, non numerentur pecuniae. at quam caeca avaritia est ! nuper fixa tabula est, qua civitates locupletissimae Cretensium vectigalibus liberantur, statuiturque ne post M. Brutum pro consule sit Creta provincia. tu mentis es compos ? tu non constringendus ? in Caesaris decreto Creta post M. Bruti decessum potuit liberari, cum Creta nihil ad Brutum Caesare vivo pertineret ? at huius venditione decreti, ne nihil actum putetis, provinciam Cretam perdidisti. omnino nemo ullius rei fuit emptor, cui defuerit hic venditor. et de exsulibus legem, quam fixisti, Caesar tulit ? nullius insector calamitatem : tantum queror, primum eorum reditus inquinatos, quorum causam Caesar dissimilem iudicavit ; deinde nescio cur non reliquis idem tribuas.

5. What aim had Lucan in composing the *Pharsalia* ?

6. Translate and explain :

- (a) sortitio praerogativae ; nuntiatio ; spectio.
- (b) Aegyptum proficiscitur cognoscendae antiquitatis.
- (c) puto esse ego illi milia aut decem aut plura perscripta, nec sic, ut fit, in palimpsestos relata : chartae regiae, novi libri, novi umbilici et lora, rubra membrana, derecta plumbo et pumice omnia aequata.



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FINAL HONOURS.

Latin.

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C.

(Unseen 1 and 2; prepared 3 and 4.)

Translate into English :

1. ME.—clare advorsum fabulabor; his auscultet quae loquar, igitur demum magis maiorem in sese concipiet metum. agite pugni: iam diust quom ventri victum non datis. iam pridem videtur factum, heri quod homines quattuor in soporem conlocastis nudos. So.—formido male ne ego hic nomen meum commutem et Quintus fiam e Sosia. quattuor viros sopori se dedisse hic autumat: metuo ne numerum augeam illum. ME. hem, nunc iam ergo: sic volo.

So.—cingitur: certe expedit se. ME. non feret quin vapulet.

So.—quis homo? ME. quisquis homo huc profecto venerit, pugnos edet.

So.—apage, non placet me hoc noctis esse: cenavi modo: proin tu istam cenam largire, si sapis, essurientibus.

ME.—hau malum huic est pondus pugno. So.—perii, pugnos ponderat.

ME.—quid, si ego illum tractim tangam, ut dormiat? So.—servaveris;

nam continuas has tris noctis pervigilavi pessume.

PLAUTUS, *Amphitruo*, 300-314.

2. censores censum idibus Decembribus severius quam ante habuerunt: multis equi adempti, inter quos P. Rutilio, qui tribunus plebis eos violenter accusarat, tribu quoque is motus et aerarius factus. ad opera publica facienda cum eis dimidium ex vectigalibus eius anni attributum ex senatus consulto a quaestoribus esset, Ti. Sempronius ex ea pecunia quae ipsi attributa erat, aedes P. Africani pone Veteres ad Vortumni signum, lanienasque et tabernas coniunctas in publicum emit, basilicamque faciendam curavit, quae postea Sempronia appellata est. iam in exitu annus erat, et propter Macedonici maxime belli curam in sermonibus homines habebant, quos in annum consules ad finiendum tandem id bellum crearent. itaque senatus consultum factum est, ut Cn. Servilius primo quoque tempore ad comitia habenda veniret. et consul maturavit, et comitia eo die qui dictus erat sunt perfecta. designatos extemplo sortiri placuit provincias, ut utri Macedonia consuli cuique praetori classis venisset sciretur, ut iam inde cogitarent pararentque quae

bello usui forent, senatumque consulerent, si qua re consulto opus esset.

LIVY, XLIV. 16.

3. concrescunt subitae currenti in flumine crustae,  
undaque iam tergo ferratos sustinet orbis,  
puppiibus illa prius, patulis nunc hospita plaustis;  
aeraque dissiliunt volgo, vestesque rigescunt  
indutae, caeduntque securibus umida vina,  
et totae solidam in glaciem vertere lacunae,  
stiriaeque inpexis induruit horrida barbis.  
interea toto non setius aëre ninguit:  
intereunt pecudes, stant circumfusa pruinis  
corpora magna boum, confertoque agmine cervi  
torpent mole nova et summis vix cornibus extant.  
hos non immissis canibus, non cassibus ullis  
puniceaeve agitant pavidos formidine pinnae,  
sed frustra oppositum trudentis pectore montem  
comminus obtruncant ferro, graviterque rudentis  
caedunt, et magno laeti clamore reportant.

VERGIL, *Georgics* III. 360-375.

4. et quoniam mihi videris istam scientiam iuris tamquam filiolam osculari tuam, non patiar te diutius in tanto errore versari, ut istud nescio quid, quod tanto opere didicisti, praeclarum aliquid esse arbitrare. aliis ego te virtutibus, continentiae, gravitatis, iustitiae, fidei, ceteris omnibus, consulatu et omni honore semper dignissimum iudicavi: quod quidem ius civile didicisti, non dicam, operam perdidisti, sed illud dicam, nullam esse in ista disciplina munitam ad consulatum viam. omnes enim artes, quae nobis populi Romani studia conciliant et admirabilem dignitatem et pergratam utilitatem debent habere. summa dignitas est in his, qui militari laude antecellunt: omnia enim, quae sunt in imperio et in statu civitatis, ab his defendi et firmari putantur; summa etiam utilitas, si quidem eorum consilio et periculo cum re publica, tum etiam nostris rebus perfrui possumus. gravis etiam illa est et plena dignitatis dicendi facultas, quae saepe valuit in consule deligendo, posse consilio atque oratione et senatus et populi et eorum, qui res iudicant, mentes permovere. quaeritur consul, qui dicendo nonnumquam comprimat tribunicios furores, qui concitatum populum flectat, qui largitioni resistat.

CICERO *Pro Murena*, 23-24.

5. Give a brief description of life in ancient Rome according to Juvenal.

6. Write explanatory notes upon :

- (a) medium erat in Anco ingenium, et Numae et Romuli memor.
- (b) fabula palliata; praevaricator; recuperator.
- (c) o genus infelix humanum, talia divis  
cum tribuit facta atque iras adiunxit acerbas.

PRELIMINARY HONOURS.

**Greek.**

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*Orestes and Ajax.*

Translate with short notes on the syntax :

Ajax, 596- 607.

1266-1279.

Orestes, 491- 506.

987-1006.

1. Of what virtue is Odysseus in the Ajax the type?  
Discuss the conception of morality implied.

2. What impression do the choral odes of the Orestes,  
as compared with those of the Ajax, make upon your  
mind?



PRELIMINARY HONOURS.

**Greek.**

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*Homer and Aristophanes.*

1. Translate with short grammatical and explanatory notes :

Homer, *Odyssey* VII., 112-127.

IX., 382-394.

Aristophanes, *Knights* 640-662.

973-996.

2. What are the views as to the state of the dead presented in the XII. Book of the *Odyssey*.

3. Give an account of the general plan and purpose of Aristophanes' *Knights*.



PRELIMINARY HONOURS.

Greek.

Translate:

Μετὰ δὲ τὴν δευτέραν ἐσβολὴν τῶν Πελοποννησίων οἱ Ἀθηναῖοι, ὥς ἦ τε γῇ αὐτῶν ἐτέτμητο τὸ δεύτερον καὶ ἡ νόσος ἐπέκειτο ἄμα καὶ ὁ πόλεμος, ἡλλοίωοντο τὰς γνώμας, καὶ τὸν μὲν Περικλέα ἐν αἰτίᾳ εἶχον ὥς πείσαντα σφᾶς πολεμεῖν καὶ δι' ἐκείνων ταῖς ξυμφοραῖς περιπεπτωχότες, πρὸς δὲ τοὺς Λακεδαιμονίους ὤρμηντο ξυγχαρεῖν. Καὶ πρέσβεις τινὰς πέμψαντες ὥς αὐτοὺς ἄπρακτοι ἐγένοντο. Πανταχόθεν τε τῇ γνώμῃ ἄποροι καθεστῶτες ἐνέκειντο τῷ Περικλεῖ. Ὁ δὲ ὁρῶν αὐτοὺς πρὸς τὰ παρόντα χαλεπαίνοντας καὶ πάντα ποιοῦντας ἅπερ αὐτὸς ἡλπίζεν, ξύλλογον ποιήσας, ἔτι ὃ ἐστρατήγει, ἐβούλετο θαρσύναι τε καὶ ἀπαχαρῶν τὸ ὀργιζόμενον τῆς γνώμης πρὸς τὸ ἡπιώτερον καὶ ἀδεέστερον καταστῆσαι.

Thucydides, ii. 59.

1. Parse ἐτέτμητο, ἡλλοίωοντο, καθεστῶτες.

2. State Pericles' plan of campaign.

Translate :

Ἦδη μὲν οὖν καὶ ἀπὸ τούτων ἐλθοῦς ἦν ὁ Σόλων καὶ μέγας. Ἐθαυμάσθη δὲ καὶ διεβοήθη μᾶλλον ἐν τοῖς Ἕλλησιν εἰπὼν ὑπὲρ τοῦ ἱεροῦ τοῦ ἐν Δελφοῖς, ὥς χρὴ βοηθεῖν καὶ μὴ περιορᾶν Κιρραίους ὑβρίζοντας εἰς τὸ μαντεῖον, ἀλλὰ προσαμύνειν ὑπὲρ τοῦ θεοῦ Δελφοῖς. Πεισθέντες γὰρ ὅπ' ἐκείνου πρὸς τὸν πόλεμον ὤρμησαν οἱ Ἀμφικτύονες, ὥς ἄλλοι τε μαρτυροῦσι καὶ Ἀριστοτέλης ἐν τῇ τῶν Πυθιονικῶν ἀναγραφῇ Σόλωνι τὴν γνώμην ἀνατιθεῖς. Οὐ μέντοι στρατηγὸς ἐπὶ τοῦτον ἀπεδείχθη τὸν πόλεμον ὥς λέγειν φησὶν Ἑρμῖππος Εὐάνθη τὸν Σάμιον· οὔτε γάρ



Αἰσχίνης ὁ ῥήτωρ τοῦτ' εἶρηκεν, ἔν τε τοῖς Δελφῶν  
ὑπομνήμασιν Ἀλκμαίων, οὐ Σόλων, Ἀθηναίων στρατηγὸς  
ἀναγέγραπται.

Plutarch, Solon.

Give some account of Solon's legislation.

Translate :

Ἀρχομένων δὲ Δακεδαιμονίων ἀχθῆσθαι τῇ αὐξήσει τῶν  
Ἀθηναίων, ἐπαίρων ὁ Περικλῆς τὸν δῆμον ἔτι μᾶλλον μέγα  
φρονεῖν καὶ μεγάλων αὐτὸν ἀξιοῦν πραγμάτων γράφει  
φήφισμα, πάντας Ἑλλήνας τοὺς ὀπήποτε κατοικοῦντας  
Εὐρώπης ἢ τῆς Ἀσίας παρακαλεῖν, καὶ μικρὰν πόλιν καὶ  
μεγάλην, εἰς σύλλογον πέμπειν Ἀθήναζε τοὺς βουλευσομένους  
περὶ τῶν Ἑλληνικῶν ἱερῶν, ἃ κατέπρησαν οἱ βάρβαροι, καὶ  
τῶν θυσιῶν, ἃς ὀφείλουσιν ὑπὲρ τῆς Ἑλλάδος εὐξάμενοι  
τοῖς θεοῖς ὅτε πρὸς τοὺς βαρβάρους ἐμάχοντο, καὶ τῆς  
θαλάττης, ὅπως πλέωσι πάντες ἀδεῶς καὶ τὴν εἰρήνην  
ἄγωσιν.

Ib. Pericles.

How did Pericles build up the sea-power of Athens?

Sight Translation :

Ἐνθὲν δὴ ἔργον καλόν, εἶπερ τι ἄλλο τῶν τοῦ Ἀλέξανδρου,  
οὐκ ἔδοξέ μοι κρύπτειν· ἐπορεύετο μὲν ἡ στρατιὰ διὰ  
φάμμου τε καὶ τοῦ καύματος ἡδὴ ἐπιφλέγοντος, αὐτὸς δὲ  
Ἀλέξανδρος δίφει κατείχετο, πεζὸς δὲ ὁμῶς ἤγειτο· ἐν δὲ  
τούτῳ τῶν φιλῶν τινες, κατὰ ζήτησιν ὕδατος ἀποτραπέντες  
ἀπὸ τῆς στρατιᾶς, ὕδρον ὕδωρ συλλελεγμένον ἐν τινι  
χαράδρῳ οὐ βαθείᾳ, ὀλίγην καὶ φαύλην πηγὴν· καὶ τοῦτο οὐ  
χαλεπῶς συλλέξαντες σπουδῇ ᾔεσαν παρ' Ἀλέξανδρον, ὥς  
μέγα δὴ τι ἀγαθὸν φέροντες· ὥς δὲ ἐπέλαζον ἡδὴ,  
ἐμβalόντες ἐς κράνος τὸ ὕδωρ τῷ βασιλεῖ προσέφερον·  
τὸν δὲ λαβεῖν μὲν φασὶ καὶ ἐπαινέσαι τοὺς χομίσαντας·  
λαβόντα δὲ ἐν ὄφει πάντων ἐκχέαι· καὶ ἐπὶ τῷδε θαυμαστὸν  
ὅσον τῷ ἔργῳ ἐπερῶσθῆναι τὴν στρατιὰν ἄπασαν.

Arrian.

PRELIMINARY HONOURS.

**Greek.**

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Make into Greek :

It appears that this terrific disorder had been raging for some time throughout the regions round the Mediterranean; having begun, as was believed, in Ethiopia—thence passing into Egypt and Libya, and overrunning a considerable portion of Asia under the Persian government. About sixteen years before, too, there had been a similar calamity in Rome and in various parts of Italy. Recently, it had been felt in Lêmnos and some other islands of the Ægean, yet seemingly not with such intensity as to excite much notice generally in the Grecian world: at length it passed to Athens, and first showed itself in the Peiræus. The progress of the disease was as rapid and destructive as its appearance had been sudden; whilst the extraordinary accumulation of people within the city and long walls, in consequence of the presence of the invaders in the country, was but too favourable to every form of contagion. Families crowded together in close cabins and places of temporary shelter—throughout a city constructed (like most of those in Greece) with little regard to the conditions of salubrity—and in a state of mental chagrin from the forced abandonment and sacrifice of their properties in the country, transmitted the disorder with fatal facility from one to the other.



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FINAL HONOURS.

**Greek.**

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*General Paper.*

1. Give an account of Kylon's conspiracy.
  2. On what basis of right did the Athenian empire rest? Where did its weakness lie?
  3. Compare the Athenian and Spartan national ideals.
  4. Describe the sea fights of Phormio.
  5. Give an account of the career of the general Demosthenes.
- 
6. Explain the conceptions *αἰδώς* and *Μοῖρα* as Homer uses them.
  7. Give your views of the plan of the seventh Nemean Ode.
  8. Illustrate from Aeschylus the manner in which religious genius uses the consecrated forms of the past for the expression of new conceptions.
  9. What is the central thought of the Ajax?
  10. For what ethical principle does Kreon in the *Antigone* stand? What according to Sophocles are the limits of that principle?
  11. What is the significance of the fall of Oedipus? Is it in any respect to be explained by personal guilt.
  12. Illustrate from the *Medea* the chief characteristics of Euripides as an artist, compared with Aeschylus and Sophocles.
  13. Give examples of the reflective insight of Thucydides.
  14. What are in your opinion the main secrets of Demosthenes' oratorical power?



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FINAL HONOURS.

**Greek.**

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*Homer, Pindar, Aristophanes, Theocritus.*

Translate with short notes :

Homer, *Odyssey*, V. 241– 261.

XIX. 509– 540.

Pindar, *Nem.*, V. 1– 21, αἰετοί.

Aristophanes, *Clouds*, 1361–1376.

Birds, 829– 846.

Frogs, 830– 848.

Theocritus, *Id.*, XV. 39– 55.



FINAL HONOURS.

**Greek.**

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*Plato, Aristotle, Plutarch*

Translate: Plato, Republic, III. Chap. VIII.—end of *E*, *μυμητέον*;

Aristotle, Ethics, X. Chap. III.—end of 4, *λέγω ὃν ᾗ δεσθαι*;

Plutarch, Pericles, Chap. XXXVIII.

1. Give Plato's classification of poetical forms, and discuss his strictures on Homer and the Tragedians.

2. Expound Aristotle's view of the importance of moral training as a preparation for the scientific study of Ethics.

3. Why is Ethics, according to Aristotle, a branch of Politics.





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FINAL HONOURS.

**Greek.**

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*Aeschylus, Sophocles, Euripides.*

Translate with short notes :

Aeschylus, Prom. Vinct., 848- 876.

Agam., 1372-1398.

Sophocles, Ajax, 666- 692.

Antig., 998-1022.

Oed.R. 1060-1085.

Euripides, Medea, 410.



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FINAL HONOURS.

**Greek.**

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*Herodotus, Thucydides, Demosthenes.*

Translate with short notes :

Heroditus, VII., 135.

Thucydides, II., 52.

IV., 62.

VII., 68.

Demosthenes, Olynth. B, 17-19. οἱ μὲν οὖν—ἐχει.

De Corona, 306-309. Ταῦτα—ἐναντιώ-  
ματα.



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FINAL HONOURS.

**Greek.**

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*Prose and Unseen.*

Translate Thucydides, Book I. Chap. 81.

Make into Greek :

That system of morality, even in the times when it was powerful and in many respects beneficial, had made it almost as much a duty to hate foreigners as to love fellow-citizens. Plato congratulates the Athenians on having shown in their relations to Persia, beyond all the other Greeks, "a pure and heart-felt hatred of the foreign nature." Instead of opposing, it had sanctioned and consecrated the savage instinct which leads us to hate whatever is strange or unintelligible, to distrust those who live on the further side of a river, to suppose that those whom we hear talking together in a foreign tongue must be plotting some mischief against ourselves. The lapse of time and the fusion of races doubtless diminished this antipathy considerably, but at the utmost it could but be transformed into an icy indifference, for no cause was in operation to convert it into kindness. On the other hand, the closeness of the bond which united fellow-citizens was considerably relaxed. Common interests and common dangers had drawn it close; these in the wide security of the Roman Empire had no longer a place. It had depended upon an imagined blood-relationship; fellow-citizens could now no longer feel themselves to be united by the tie of blood. Every town was full of resident aliens and emancipated slaves, persons between whom and the citizens nature had established no connection, and whose presence in the city had originally been barely tolerated from motives of expediency. The selfishness of modern times exists in defiance of morality; in ancient times it was approved, sheltered, and even in part enjoined by morality.



PRELIMINARY AND FINAL HONOURS.

French.

A.

(a) Le chat et le renard, comme beaux petits saints,  
S'en alloient en pèlerinage.

C'étoient deux vrais *tartuffs*, deux *archipatelins*,  
Deux *francs patte-pelus*, qui, des *frais* du voyage,  
*Croquant* mainte volaille, *escroquant* maint fromage,  
S'indemnissoient à *qui mieux mieux*.

Le chemin étant long, et *partant* ennuyeux,  
Pour l'accourir ils disputèrent.

(b) Il n'est pas mal; ma fille l'a trouve très ressemblant; et s'il  
*vous prenait fantaisie d'en faire autant* pour elle, *dans vos moments perdus*, ella vous donnerait quelques séances.

(c) Qu'il l'immole, il le faut: il est né pour le crime,  
Qu'il en soit l'instrument, qu'il en soit la victime.  
Ma vengeance, mes feux, ma loi, ma sûreté,  
*L'irrévocable arrêt* de la fatalité,  
Tout le veut. Mais crois-tu que son jeune courage,  
Nourri du fanatisme, en ait toute la rage?

(d) Ma *démarche* méritait mieux, madame Dumont, et vous  
n'aurez ni à vous plaindre ni à vous étonner si je me venge de vos  
refus.

(e) Campé au milieu du salon, ramassé sur ses jambes courtes  
pour mieux bondir, râlant comme un bûcheron on un geindre, il  
leur mimait un vrai combat terminé par son cri de triomphe quand  
il eut enfoncé l'arme jusqu'à la garde, de bas en haut, coquin de  
sort!

1. Refer each extract to its context. Explain in  
French italicized words and phrases, and translate.

2. *Si je me venge de vos refus* (d).—How does the  
speaker carry out his threat?

B.

1. Explain in French:

Au fur et à mesure des besoins.—qui n'en pouvais mais.—Faites-  
moi grace de votre argent.—Comme un enfant qui fait l'école buis-  
sonnière.—Je dus en faire mon deuil, quitte à me rattraper chez  
nous tous les dimanches.—C'est au fils que j'en ai.—Ce travail qui  
vous a jeté hors de gonds.—M. Poulard, gros comme le bras.—



Toutes mes ambitions s'en allaient à vau-l'eau.—Vous nagez dans le bleu.—Vous penserez aux échéances fin courant.—Raison de plus pour faire feu des quatre pieds si l'on vent qu'on arrive à point.—L'Assemblée aura maille à partir avec la misère.

## 2. Translate into idiomatic French :

The lesson closed with a nice lunch.—What will become of you without him.—He got me out of the difficulty.—I am none the worse for it.—I almost burst out laughing.—So they applauded as loud as they could (*bras*).—The matter is too serious to be settled in an off-handed way (*piéd*).—That is no great difficulty (*mer*).—He put them off his tracks.—The carriage went very rapidly (*train*).—He was quite exhausted (*forces*).—They walked and drove in turn (*rôle*).—When Tartarin had got half-way up the mountain he took his bearings.

## C.

1. Write in French a brief *résumé* of *René*, naming the model for René. Discuss briefly the realism of the work.

2. Discuss *Tartarin sur les Alpes*, referring to the work for examples in each case, as to *description*, *comique de situation* ou de *caractère*, *vérité* ou *vraisemblance*.

3. (a) Indicate and discuss the educational reforms contained in the *Roman d'un Brave Homme*. (b) Give in French an account of the *Economat*.

4. "La postérité ne voit plus que le trésor moral de sagesse, de vérité humaine, d'observation éternelle qui lui est transmis sous une forme si parlante et si sive."—(Siente-Beuve.)

Elaborate with reference to four of La Fontaine's Fables.

## D.

1. Give a brief account of the principal *genres* of French literature during the 17th century.

2. What was the effect, (a) of the absolutism of the French monarchy, (b) of the great Revolution on French literature?

3. Give a brief review, naming principal writers, of the great literary movements of the 19th century.

4. Write notes on Malherbe, Diderot, J. J. Rousseau, Mme. de Staël, George Sand, Zola, Sully-Prudhomme.

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PRELIMINARY AND FINAL HONOURS.

**French.**

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*Prose and Composition.*

(NOTE.—First year candidates will omit B.)

**A.**

The business of government is to establish order and maintain security; but it is not always the case that the government recognizes the necessary boundaries of its power or is willing to keep within them (so far as this is concerned the form of the government goes for nothing, and the heads of republics have been as overbearing as the most absolute monarchs). And yet nothing is more disastrous in the long run than a government which exceeds its powers. It may be said that for three centuries the government did more harm each year in France than any natural scourge would ever have been able to do.

Unfortunately for the people, the Revolution did not mark out precisely the limits where the legitimate action of government ends, where the inalienable right of the individual begins. It left this task to us. Upon its completion depends the future of the working classes. The enormous progress that has taken place in the conditions of their material existence during the last fifty years cannot be looked upon as definite; it may be compromised at any moment, so long as this problem remains unsolved. The working classes can aid the solution greatly. And for that purpose it is not necessary for them to invite the government to step outside of its province, which it already does to too great an extent, by asking for economical privileges.

**B.**

Every group has its central figure, round which the rest cluster and gravitate like the planets in a system round their sun.

Petrus Borel was this sun; none of us ever attempted to resist his attraction. No sooner did you come within the vortex, than you spun around with peculiar complacency, as though fulfilling some natural law. You felt somewhat of the rapture of the Spinning Dervish in the centre of his "fustanel," bell-shaped with the swiftness of his waltzing.

His was one of those faces which once to see is never to forget. His useful and grave countenance, with its perfect regularity, its olive skin, with here and there a touch of amber warmth, like the

mellow canvas of an old master, was lit up by his large glistening mournful eyes, the eyes of an Abencerage thinking of Granada. The best description we can give of those eyes is that they seemed to belong to other climes, or to yearn for other scenes. His bright-red mouth shone like a flower beneath his moustache, and threw a spark of life into the impassive mould of a face eastern in its immobility.

The presence of Petrus Borel produced an indefinable impression, the cause of which we at length discovered. He was not of this age; nothing in him bespoke the Modern. He always seemed fresh from the far past, as though he had parted from his forefathers but yesterday. In none other have we seen this expression. To believe him a Frenchman, born in the present century, were difficult. A Spaniard, an Arab, or an Italian of the fifteenth, he might well have been.

C.

Composition française :

(a) "Le Misanthrope" de Molière.

*ou*

(b) "La Chine et son avenir."

HONOURS.

**French.**

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*Preliminary and Final Dictation.*

24 décembre 1849.

J'avais chaussé mes pantoufles et endossé ma robe de chambre. J'essuyai une larme dont la bise qui soufflait sur le quai avait obscurci ma vue. Un feu clair flambait dans la cheminée de mon cabinet de travail. Des cristaux de glace, en forme de feuilles de fougère, fleurissaient les vitres des fenêtres et me cachaient la Seine, ses ponts et le Louvre des Valois.

J'approchai du foyer mon fauteuil et ma table volante, et je pris au feu la place qu'Hamilcar daignait me laisser. Hamilcar, à la tête des chenets, sur un coussin de plume, était couché en rond, le nez entre ses pattes. Un souffle égal soulevait sa fourrure épaisse et légère. A mon approche, il coula doucement ses prunelles d'agate entre ses paupières mi-closes qu'il referma presque aussitôt, en songeant: "Ce n'est rien, c'est mon ami."

—Hamilcar! lui dis-je, en allongeant les jambes, Hamilcar, prince somnolent de la cité des livres, gardien nocturne! Pareil au chat divin qui combattit les impies dans Héliopolis, pendant la nuit du grand combat, tu défends contre de vils rongeurs les livres que le vieux savant acquit au prix d'un modique pécule et d'un zèle infatigable.



*Queen's University Examinations: April, 1902.*

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PRELIMINARY AND FINAL HONOURS.

**French—Sight Translation.**

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(NOTE.—First year candidates will omit B.)

A.

Translate into English :

Aucun de ceux qui s'indignent à Paris de ce qui s'est passé à Pékin ne sait ce qu'il aurait fait s'il avait été à Pékin au lieu d'être à Paris, et s'il y avait subi les longues angoisses du siège. Si quelques missionnaires se sont laissé entraîner par l'exemple général, c'est qu'ils sont des hommes. Mais combien y en a-t-il eu? Un très petit nombre, disent les journaux, deux peut-être, et ils ont été aussitôt désavoués. On a exagéré la portée morale de certains actes pour y associer ensuite la responsabilité des missionnaires, et les englober tous dans une même réprobation. Cette fois encore, M. le président du Conseil a été bien inspiré lorsqu'il a dit: "Je me demande quel est, en vérité, ce mal étrange et pernicieux qui nous rend si enclins à tourner contre nous-mêmes, et sans cesse, tous les efforts de notre censure la plus amère, de nos critiques les plus cruelles; qui nous amène, semble-t-il, à souhaiter comme une victoire la conquête de quelques documens d'où pourrait résulter la preuve que nous avons manqué aux lois de l'humanité, à concevoir je ne sais quel désir de découvrir quelque raison secrète de rougir devant le monde." Cette observation, quelque juste qu'elle soit, n'a pas désarmé l'extrême gauche; elle a mis un véritable acharnement à réclamer le rapport qu'on ne voulait pas lui livrer, et il a fallu plusieurs votes successifs pour le lui refuser.

B.

Translate into English :

1. Le brick s'arrêta, vingt-quatre heures après son départ, au nord-ouest d'une île en vue des côtes d'Espagne. Le bâtiment avait été choisi assez fin de carène, assez léger de mâture pour qu'il pût sans danger s'ancrer à une demi-lieue environ des récifs qui, de ce côté, défendaient sûrement l'abordage de l'île. Si des barques ou des habitants apercevaient le brick dans ce mouillage, ils ne pouvaient d'abord en concevoir aucune inquiétude. Puis il fut facile d'en justifier aussitôt le stationnement. Avant d'arriver en vue de l'île, Montriveau fit arborer le pavillon des États-Unis. Les matelots engagés pour le service du bâtiment étaient américains et ne parlaient que la langue anglaise. L'un des compagnons de monsieur de Montriveau les embarqua tous sur une chaloupe et les amena

dans une auberge de la petite ville, où il les maintint à une hauteur d'ivresse qui ne leur laissa pas la langue libre. Puis il dit que le brick était monté par des chercheurs de trésors, gens connus aux États-Unis pour leur fanatisme, et dont un des écrivains de ce pays a écrit l'histoire. Ainsi la présence du vaisseau dans les récifs fut suffisamment expliquée. Les armateurs et les passagers y cherchaient, dit le prétendu contre-maître des matelots, les débris d'un galion échoué en 1788 avec les trésors envoyés du Mexique. Les aubergistes et les autorités du pays n'en demandèrent pas davantage.

2. Li quens Rollanz el' camp est repairez.  
Tient Durendal, cume vassals i fiert.  
Faldrun de l' Pui i ad par mi trenchiet  
E vint e quatre de tuz les mielz preisie;z;  
Jamais n'iert hum plus se voeillet vengier.  
Si cum li cerfs s'en vait devant les chiens,  
Devant Rollant si s'en fuient paien.  
Dist l'Arcevesvues: "Asez le faites bien.  
" Itel valur deit avoir chevaliers  
" Ki armes portet e en bon cheval siet;  
" En *la* bataille deit estre forz e fiers,  
" O autrement ne valt quatre deniers;  
" Monies deit estre en un de cez mustiers:  
" Si preierat tuz jurz pur noz pecchiez."  
Respunt Rollanz: " Ferez, ne's espargniez ! "  
A icest mot l'unt Franc recumenciet;  
Mult grant damage i out de chrestiens.

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FINAL HONOURS.

French.

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*Literature.*

A.

1. Refer each extract to its work and context and explain in French italicized parts.

(a) Vous voulez me *faire prendre le change*, et détourner mon attention du billet, qui, sans doute, est une missive de quelque amant ; mais je le verrai, je vous assure.

(b) A qui venge son père il n'est rien impossible.  
Ton bras est vaincu, mas non pas invincible.

(c) Hasard ?  
Mets que font les *fripons* pour les sots qui le mangent.  
Point de hasard ! Tant pis si vos plans se dérangent !  
Mais je *prétends* sauver ceux qu'ici vous perdez.  
Je vais crier mon nom sur les toits.

(d) Sachez que j'ai le cœur trop bon pour me parer de quelque chose qui ne soit point à moi, et que tout Naples peut *rendre témoignage* de ma naissance.

(e) Mais le crime *l'emporte*, et je meurs détrompé.  
Egisthe va se perdre à *force de* courage.  
Il désobéira ; *la mort est son partage*.

(f) Puissiez-vous pour goûter de vrais contentemens,  
L'un pour l'autre, à jamais, garder ces sentimens !  
Trahi *de toutes parts*, accablé d'injustices,  
Je vais sortir d'un *gouffre* où triomphent les vices,

B.

1. Discuss Corneille's originality in the creation of his characters, illustrating from similar rôles in different plays.

2. Compare the idealism or realism of Corneille and Racine both in literary style and general treatment of work.



3. State in French *le Songe* of *Athalie*; and show how it affects the unity of the play.

4. (a) Name as many as you can of La Fontaine's fables which illustrate *la Médisance*, *l'Amitié*, *l'Imitation*, *la Puissance prime le droit*. (b) Write in French an analysis of *Le Paysan du Danube*, adding a critical estimate.

5. How far do *le sublime et le grotesque* enter into Victor Hugo's works? How far is this use of them justifiable?

6. Are types admissible in realistic literature? What is Zola's position in *la Débâcle*?

7. Compare A. Daudet, Zola and Loti as realists, illustrating from works.

### C.

1. Give a brief account and estimate of the influence of the ancient classical literatures on French literature. Refer to the efforts made to break away from this influence, and estimate their success.

2. Give an account of Boileau and his work and show how far he influenced Molière and La Fontaine.

3. Compare Voltaire and Victor Hugo from a biographical and literary point of view; also as expressions of their respective ages.

FINAL HONOURS.

**French.**

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*Philology.*

A.

- (a) E! Durendal, bone, si mare fustes!  
Quant jo n'ai prot, de vos nen ai meins cure!  
Tantes batailles en champ en ai vencudes,  
Et tantes terres larges escombatudes,  
Que Charles tient, qui la barbe at chanude!  
Ne vos ait hom qui por altre s'en fuiet!  
Molt bons vassals vos at lonc tens tenude;  
Jamais n'iert tels en France l'assolude."

- (b) Et dist Amis: "Ne sai qu'en tient a vos.  
Ne veez vos que je sui uns lepros?  
Et quier Amile, dont je sui desirros.  
Quant je nel truis, molt en sui corroços.  
Or voldroie morz estre."

Li cuens Amiles oït Ami parler,  
Son compaignon que molt ot desirré;  
Sor la charrète va maintenant monter,  
Il le commence baisier et acoler,  
Sus el palais le fist tantost mener.  
Sor un vert paille african d'oltre mer,  
La l'ont assis, sel vuelent honorer.

- (c) Tant i fui que j'oï venir  
Chevaliers, ce me fu avis,  
Bien cuidai que il fussent dis:  
Tel noise et tel bruit demenoit  
Uns seus chevaliers qui venoit.  
Quant ge le vi tot seul venant,  
Mon cheval restrainz maintenant,  
N'a monter demore ne fis.

- (d) Tiecelins voit qu'or est saison  
De gaaignier; si laisse corre:  
Un en a pris. Por le rescorre,  
Sailli la vieille enmi la rue;  
Tiecelin voit, après li rue  
Chaillous et pières; si l'escrie.

1. Name the poem to which each of the above extracts belongs.

2. Write in French a synopsis of the work from which (c) is taken.

3. Give the literary history of the poem from which (d) is taken.

4. Write each extract in idiomatic modern French.

5. Turn (a) and (b) into the original language.

6. Illustrate from any of the extracts the changes that the vowel of the tonic syllable underwent in becoming French, and deduce rules.

7. State *le principe de la moindre action*. Illustrate from the extracts.

## B.

1. Compare briefly the literatures of France and Germany during the 11th, 12th, and 13th centuries.

2. Write notes on Adam le Roi, *Aucassin et Nicolette*, Francois Villon, La Confrerie de la Passion.

PRELIMINARY HONOURS.

**German Literature.**

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1.

“Dieses Gedicht seiner Intention nach bei weitem mehr aristophanisch als tragisch ist.”

“Daher ist es ein wahrhaft mythologisches Gedicht zu nennen.”

Explain these references to *Faust* by Schelling, giving illustrations where you can.

2. Give Wordsworth's *or* Matthew Arnold's *or* Sainte Beuve's *or* Carlyle's *or* Kuno Fischer's estimate of Goethe's genius, and offer your opinion of its merits.

3. Distinguish between satire and humour, and give examples of each from *Faust* or any other poem of Goethe's.

4. Translate the following passages, explain the meaning, and indicate the context and proximate date of composition, with reasons for your answer.

(a) Ihr naht euch wieder, schwankende Gestalten,  
Die früh sich einst dem trüben Blick gezeigt.  
Versuch' ich wohl, euch diesmal festzuhalten?  
Fühl' ich mein Herz noch jenem Wahn geneigt?  
Ihr drängt euch zu! Nun gut, so mögt ihr walten,  
Wie ihr aus Dunst und Nebel um mich steigt;  
Mein Busen fühlt sich jugendlich erschüttert  
Vom Zauberhauch, der euren Zug umwittert.

(b) Er füll' davon dein Herz, so gross es ist,  
Und wenn du ganz in dem Gefühle selig bist,  
Nenn' es dann, wie du willst,  
Nenn's Glück! Herz! Liebe! Gott!  
Ich habe keinen Namen  
Dafür! Gefühl ist alles!  
Name ist Schall und Rauch,  
Umnebelnd Himmelsglut.

(c) Wendet zur Klarheit  
Euch, liebende Flammen!  
Die sich verdammen,

Heile die Wahrheit,  
Dass sie vom Bösen  
Froh sich erlösen,  
Um in dem Allverein  
Selig zu sein.

5. Outline the development of the character of Mephistopheles, giving quotations where possible.

6. Explain the fundamental idea of the poem of Faust especially as it is unfolded in the Fifth Act of the Second Part.

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PRELIMINARY AND FINAL HONOURS.

German.

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A.

1. Refer each of the following extracts to its context and work, explain in German italicized parts, translate (c), and write in German a commentary on (e).

(a) Ich hoffe, Ihr werdet *Euch* genügend *ausweisen* können über den *Anlass* dieses Besuches, *Weibel*, herrschte sie dem Eintretenden *entgegen*.

(b) Was denken Sie sich, das *imponierte* doch meinem Vater. Solchen Leuten imponiert nur *der Erfolg*. Er hielt es für sein Pflicht äusserlich wieder *anzuknüpfen* und ich *kam ihm entgegen*.

(c) Verwahrt  
Ist mir das Ohr vor deiner Rede Schlingen,  
Und deines Auges Feuerpfeile gleiten  
Am guten Harnisch meines Busens ab.  
Zu den Waffen, Dunois!  
Mit Streichen nicht mit Worten lass uns fechten.

(d) Was du *ererbst* von deinen Vätern hast,  
*Erwirb* es um es zu *besitzen*.  
Was man nicht *nützt*, ist eine *schwere Last*,  
Nur was *der Augenblick erschafft* das kann er *nützen*.

(e) Zwei Seelen wohnen, ach, in meiner Brust,  
Die eine will sich von der andern trennen;  
Die eine hält in derber Liebeslust  
Sich an die Welt mit klammernden Organen;  
Die andre hebt gewaltsam sich vom Dust  
Zu den Gefilden hoher Ahnen.

(f) Dort fährt der Wagen langsam nach der Stadt zurück.—So langsam? Und in jedem *Schlage* ein Bedienter?—Das sind *Anzeigen*, die mir nicht gefallen:—dass *der Streich* wohl nur halb gelungen ist;—dass man einen Verwundeten *gemächlich* zurückführet—und keinen Toten.—*Die Maske* steigt ab.

B.

1. Explain in German :

Dich habe ich für jeden Preis noch zu wohlfeil.—Ihr Verdacht schweift auf einer ganz andern Fährte.—Es kann Anstand damit

haben bis morgen.—Jederman würde es uns auf den Kopf zusagen.—Ich bin für nichts gut.—Hinterdrein der alte Sebastian, ein wenig gekrümmt, die Hände auf den Rücken geschränkt.—In diesem Gedanken findet er sich ab mit dem Leben.—Das bloss Schildern wollen heisst schon auf's Pfuschen sich verlegen.—dann schiess ich sie über den Haufen.—jückerlich bis zum letzten Faden.—eine halb verbummelte Existenz.—Er soll mir zappeln, starren, kleben.—nehmt euch meiner an.—An der ist nicht zu halten.

## 2. Translate into idiomatic German :

It was the pastor who once had seen him weeping.—Our age performs all its duties.—I am living out of mere curiosity.—He was sorry for her.—He had been obliged to desist from a great many things.—It would depend on the like of you to teach us something better.—Therefore, good sir, make up your mind betimes.—It is becoming in you to rave like a madman.—Impress upon him not to forget that.

### C.

1. What are the three *Schwerpunkte* of *Faust*? Show their relation to each other, and quote, or give the substance of the passages concerned.

2. Criticize the satire of the *Schülerscene*.

3. What is the part of *der Menschen Thätigkeit* in the *Faustproblem*? State Lessing's view of the same subject.

4. Give the concluding words of the poem and show how they solve the *Problem*.

5. Discuss *Emilia Galotti* and *Die Jungfrau* as to the manner in which they fulfil the requirements of dramatic art. What is the "dramatic conflict" in each case?

6. Outline in German either one of (a) *Kinder des Lichtes*, (b) and either one of the following ballads: *Die Kraniche des Ibycus*, *Der Kampf mit dem Drachen*.

### D.

1. Give a short account of Lessing and his work.

2. Write a brief account of the *Sturm- und Drangperiode* and of the *Romantische Schule* with an estimate of their influence on German literature.

3. Notes on Bürger, Herder, Arndt, Felix Dahn.

PRELIMINARY AND FINAL HONOURS.

**German—Prose and Composition.**

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(First year candidates will omit B.)

A.

Translate into German :

Like his mother, Goethe had brown hair and dark, lustrous eyes, the penetrating glance of which, from his childhood to his old age, never failed to impress those who met him. He was a vigorous and active child, and at an early age gave evidence of a highly imaginative temperament. His grandmother's house consisted of two houses joined in one, and the thought of its dark passages and corners often filled him with dismay in the night, and made sleep impossible. From a room in the back of the house, where the children were allowed to play in the summer, there was a charming view, with wide gardens in the foreground, and, beyond the city walls, a fertile valley stretching toward Höchst. Goethe himself has described how he used to sit at the window of this room and watch thunderstorms and sunsets, and how the beautiful landscape, combined with the sight of children playing in the gardens and the sound of balls rolling and ninepins falling, often filled him with a feeling of solitude and a vague longing.

B.

Translate into German :

If it were done, when 'tis done, then 'twere well  
It were done quickly: If the assassination  
Could trammel up the consequence, and catch,  
With his surcease, success; that but this blow  
Might be the be-all and the end-all here,  
But here, upon this bank and shoal of time,—  
We'd jump the life to come.—But, in these cases,  
We still have judgment here; that we but teach  
Bloody instructions, which, being taught, return  
To plague the inventor: This even-handed justice  
Commends the ingredients of our poison'd chalice  
To our own lips. He's here in double trust:  
First, as I am his kinsman and his subject,  
Strong both against the deed; then, as his host,  
Who should against his murderer shut the door,  
Not bear the knife myself. Besides, this Duncan



Hath borne his faculties so meek, hath been  
So clear in this great office, that his virtues  
Will plead like angels, trumpet-tongued, against  
The deep damnation of his taking-off:  
And pity, like a naked new-born babe,  
Striding the blast or Heaven's cherubin, horsed  
Upon the sightless couriers of the air,  
Shall blow the horrid deed in every eye,  
That tears shall drown the wind.

C.

Thema zum deutschen Aufsatz: Schiller's "Jungfrau  
von Orleans." (Man schreibe ungefähr 400 Worte.)

PRELIMINARY AND FINAL HONOURS.

**German—Sight Translation.**

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(NOTE.—First year candidates will omit B.)

A.

Translate into English :

Gestern bei der Rückkehr von Kosenow hatte Gerhard den Weg über Retzow genommen und war Vadder Deeps, den seine scharfen Augen schon aus weiter Ferne mitten auf dem Felde unter den Arbeitern bei Aufrichtung einer Miete entdeckt, wirklich habhaft geworden, indem er direct auf den Ort zusprengte und dem Alten keine Zeit zum Entweichen liesz. Er hatte ihn dann, im Namen der beiden Herren Zempin, beauftragt, die Retzower Gespanne morgen mit dem Frühesten nach Kantzow zu schicken auf eine Stelle, die er bestimmt bezeichnete. Damit der Alte nicht, wie er es gelegentlich that, sich mit Schwerhörigkeit entschuldigen könne, hatte er die Stimme laut erhoben, so dasz sämmtliche Arbeiter ihn vernehmen muszten und auch sonst geflissentlich den Auftrag in die Form eines strengen, unabweislichen Befehls gekleidet. Während er nun heute selbst in den Morgenstunden auf dem entgegengesetzten Ende des Gutes die Aufarbeitung des Restes, welcher vom vorigen Tage geblieben, überwacht hatte, wurde ihm, als er gegen zehn Uhr nach Hause kam, um sich zu dem beabsichtigten Besuch bei dem Grafen zurecht zu machen, durch einen der beiden Unterinspectoren—wie etwas, das sich ja eigentlich von selbst verstände—die Mittheilung, dasz bis zur Stunde kein Retzower Gespann sich auf der bezeichneten Stelle habe blicken lassen.

B.

Translate into English :

1. Innerhalb des Volkslebens bedingt das Zusammensein und der Verkehr der Menschen stets werdende allgemeine Formen desselben, und sofern in diesem Brauche sich unbewusst aus der geistigen Natur der Menschen heraus ein Sittliches entfaltet, hat man ihn passend Sitte genannt und mit Gesittung den Gegensatz formloser Roheit und brutaler Gemeinheit bezeichnet. Entbehrt die Sitte dieses idealen Gehalts, so sinkt sie zur leeren Form eines Ceremoniels herab; werden Formen festgehalten die der fortschreitende Geift des Lebens verlassen hat, so kann der tragische Conflict der Sitte und der freien Sittlichkeit eintreten, dessen organische Lösung eben die Neubildung der Sitte ist. Die Sitte umgibt den Men-

schen mit einer idealen Atmosphäre, in welcher das Rechte und Wohlanständige ihm zur zweiten Natur wird; die Sitte befriedigt den Anschauungstrieb der Seele, indem sie das innere Gesetz in äusseren Formen zur Erscheinung bringt. Sie soll stets veredelt, das heisst zum reinen Ausdruck der Humanität durch wechselseitiges Wohlwollen werden.

2. Lûte ruofte Herwic:      “hie wirt mort getân,  
sit daz wir niht lenger      dës tages mügen hân,  
wir slahen alle einander      die fremden zuo dën kunden.  
swiez wêrt unz an dën morgen,      hie wirt niht dër dritte lëbendec  
[funden.”

Die grimme müelîchen      liezen dô dën strît.  
mit vil müeden handen      schieden si sich sît.  
si beliben bi einander      dannoch alsô nâhen,  
swâ diu fiwer brunnen,      daz ir hëlme und ouch ir schilde sâhen.

Dô riet in listen Ludewîc:      “nu leget iuch ze tal,  
iur houbet ûf die schilde,      und habet grôzen schal:  
sô mügen niht wænen      die von Hegelingen,  
ob ichz kan gefüegen,      daz ich iuch von hinnen künne bringen.”

PRELIMINARY AND FINAL HONOURS.

**German.**

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*Dictation.*

“Gewisz nicht,” fiel er bestätigend ein; “derartige Dienste lässt sich ein Gentleman nicht bezahlen, und Sie sind ein Gentleman, das erkenne ich mit Freuden an. Wenn ich aber meiner freundschaftlichen Gesinnung für Sie dadurch einen Ausdruck geben möchte, dasz ich Ihnen zum Abschiede ein Andenken anbiete, trete ich Ihnen dann etwa zu nahe? Zum Teufel! so seien Sie doch nicht kindisch! Sollen denn nur Fürsten das Recht haben, Geldgeschenke machen zu dürfen? Wenn Ihnen ein König . . . beruhigen Sie sich! der Fall wird nicht eintreten . . . aber setzen wir den Fall, ein König verleihe Ihnen die Brillanten zu seinem Hausorden, Sie würden dieses Wertgeschenk doch unbedenklich einstecken . . . wohlgemerkt, dieses Wertgeschenk! den die Brillanten haben in solchem Falle einen bestimmt zugemessenen Wert. Bin ich denn nun so viel schlechter als ein Fürst? ist meine Hand vielleicht weniger ehrlich? ist es etwa ein Schimpf für den Empfänger, wenn er von Otto Mühlfeld, in Firma Mühlfeld und Weber, ein Wertgeschenk annimmt? Hier greifen Sie zu! ich mache es zur Bedingung unseres freundschaftlichen Auseinandergehens, dasz Sie dieses kleine Kapital als einen Notpfennig mit sich nehmen!”



FINAL HONOURS.

German,

Philology.

A.

(a) Jah svaleikaim managaim gajukom rodida du im thata vaurd, svasve mahtedun hausjon. Ith inuh gajukon ni rodida im, ith sundro siponjam seinaim andband allata. Jah qath du im in jainamma daga at andanahtja than vaurthanamma: usleitham jainis stadis. Jah afletandans tho managein andnemun ina sve vas in skipa; jah than anthara skipa vesun mith imma. Jah varth skura vindis mikila jah vegos valtidedun iu skip, svasve ita juthan gafullnoda.  
\* \* \* \* \*

Jah uslaubida im Iesus suns. Jah usgaggandans ahmans thai unhrainjans galithun in tho sveina, jah rann so hairda and driuson in marein; vesunuth-than sve tvos thusundjos, jah afhvapnodedun in marein.

(b)  
Ni sint thie ímo ouh derien, in thiú nan Fránton uuerien,  
thie snélli sine irbiten, thaz síe nan umbiriten.  
Uuanta állaz, thaz sies thenkent, sie iz al mit góte uuirkent,  
ni dúent sies núiht in noti ána sin girati.  
\* \* \* \* \*

Indatun sie tho thare thaz iro dréso sare,  
rehtes sie githahtun, thaz sie imo géba brahtun:  
Myrrun inti uuirouh ioh gold seinantaz ouh,  
géba filu mara: sie súahtun sine uuara.

(c) Owe war sint verschwunden alliu miniu jar!  
ist mir min leben getroumet oder ist ez war?  
daz ich ich ie wande, daz iht wære, was daz iht?  
dar nach han ich geslafen und enweiz es niht.  
\* \* \* \* \*

Do man daz gehorte, daz man zem münster sano,  
unt in gesarket hete, do huop sich groz gedranc:  
durch willen siner sele waz opfers man do truoc!  
er hete bi den vinden doch guoter vriunde geuuo.

Kriemhilt diu arme zir kameræren sprach:  
'si suln durch mine liebe liden ungemach,  
die im iht guotes gûnnen und mir wesen holt;  
durch Sifrides sele sol man teilen sin golt.'

1. Translate the above extracts into idiomatic Modern High German.

2. Classify the verbs in (a) according as they are strong, weak or irregular.

3. Write a list of words from (a), that occur in Modern High German, English or Anglo-Saxon.

4. Give the present and preterit indicative in full of *varth*, *aftetans*, *valtidedun*, *vesum*; (a) conjugate in the same tenses as many of these verbs as occur in *AHD* and *MHD*.

5. Decline in Gothic *siponjam* and in Gothic, *AHG* and *MHD* *thata vaurd*, *imma*.

6. (a) *Sang*, *hete*, *suln*; (b) *willen*, *vriunde*, *sele* (extract c). Give present indicative in full of the foregoing verbs and decline the nouns in *G*, *AHD* and *MHD*.

### B.

1. Account for the earlier influence of Latin on the German language. Write words from (b) or (c) of Latin origin.

3. (a) Show the relation of *G*, *AHD* and *MHD* to each other, and also to *NHD*.

(b) Show how *NHD* became the literary language of Germany.

### C.

1. (a) Define *Mythe*, *Saga*, *Legende*. (b) What are the principal *Sagenkreise* in Old German literature?

2. What services did *Karl der Grosse* render German literature? How far were they permanent?

3. Give an account of the principal works of the *höfische* poetry of the *erste Blütezeit*.

FINAL HONOURS.

**German.**

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*Literature.*

A.

1. Refer each of the following passages to its work and context :

- (a) Wer hiess auf einen zweifelhaften Wurf  
Mich alles setzen? Alles? so verwegen,  
So zuversichtlich mit dem Himmel spielen?  
Wer ist der Mensch der sich vermessen will  
Des Zufalls schweres Steuerrad zu regieren,  
Und doch nicht der Allwissende zu sein?
- (b) Ach mein Verderben hab'ich mir erfleht,  
Und mir zum Fluche wird mein Flehn erhört.  
Nie hätten wir uns sehen sollen, niemals!  
Daraus kann nimmer, nimmer gutes kommen!
- (c) Ich will ihn brechen, diesen starren Sinn.  
Den kecken Geist der Freiheit will ich beugen,  
Ein neu Gesetz will ich in diesen Landen  
Verkündigen—Ich will—Gott sei mir gnädig.

(d) Alter Freund! immer getreuer Schlaf, fiehst du mich auch,  
wie die übrigen Freunde? Wie willig senkstest du dich auf mein  
freies Haupt herunter, und kühltest, wie ein schöner Myrtenkranz  
der Liebe, meine Schläfe!

- (e) So steigst du denn, Erfüllung, schönste Tochter  
Des grössten Vaters, endlich zu mir nieder!  
Wie ungeheuer steht dein Bild vor mir!
- (f) O stünde jetzt, so wie du immer glaubst,  
Dass du von Feinden rings umgeben bist,  
Ein Feind bei dir, wie würd' er triumphiren!

(g) Wenn Baum und Busch zu dicht die Ufer sperren oder  
Felsblöcke aufgethürmt lagen, hub er das Mägdlein auf den Arm  
und schritt durch schäumende Wasser.

(h) Er nahm die Platte vom Tisch und trug sie eilig in die Fabrik,  
von dort ging das blaue Packet mit vielen Empfindungen für den  
Herrn Gevatter in das Haus der Feinde.

2. Rewrite (a) in German prose so as to clearly show  
its meaning.



3. *Alter Freund!* u.s.w. (d)—Refer to any similar apostrophe in Shakespeare.

## B.

1. (a) What did Lessing do to nationalize German literature? (b) Estimate his critical insight and technical skill. (c) What are his views with respect to Divine revelation? Illustrate from his works.

2. (a) How far is Goethe autobiographical in *Tasso* and *Iphigenie*? (b) Comment on literary style and dramatic structure in the same works. (c) Refer to passages of special poetic merit in *Iphigenie*.

3. What part does the *Freiheitsidee* play in Schiller's works?

4. (a) Den höchsten Triumph feiert seine (Freytags) Darstellung überall wo sie humoristisch gehalten ist. Da wirkt er durch sein altes Mittel, die Behandlung des Gegensatzes. . . . . (b) Die Schwächen und Mängel des Buches (*die Verlorene Handschrift*) sollen gar nicht geleugnet werden. Discuss.

## C.

1. Compare briefly Lessing and Goethe as to biography, style, work and contribution to art and literature.

2. Give an account of *Das Junge Deutschland* from a literary, personal and political aspect.

3. Give an account of the historical novel in Germany during the latter half of last century.

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Italian.

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Prose and Sight.

A.

Translate into Italian :

At sunset the whole Italian line advanced towards the enemy. A battalion of bersaglieri proceeded in two files along a road that had been passed over in the morning by a troop (*drapello*) of cavalry. These soldiers had bravely watered a few days before the hill of San Martino with their blood. The news of the death of the boy had already spread among them before they left their camp (*accampamento*). Their path, flanked by a stream, passed a few steps' distance from the house. When the first officers of the battalion saw the little corpse extended under the tree and covered with a tricolor flag, they saluted it with their sabres ; and one of them bent over the bank of the brook, which was quite covered with flowers, plucked (*strappare*) two blossoms and threw them on him. Then all the bersaglieri who passed plucked some and threw them on the dead one. In a few minutes the boy was covered with flowers, and officers and soldiers all saluted him in passing.

B.

Translate into English :

Pochi giorni dopo questo avvenimento l' Accademia tenne un' adunanza a porte chiuse, nella quale il dottore Z——fece delle comunicazioni intorno ad alcune sue recenti ricerche sulla pazzia.

Risulterebbe da studi profondi, che gli uomini sono tutti più o meno matti . . . senza far eccezione delle donne. I pazzi rinchiusi nei manicomii sono varietà di poca importanza, che si trovano all' ospizio per circostanze fortuite. Non sono quasi mai i più pericolosi, tanto è vero che gli assassini, che non sono altro che pazzi, si consegnano alle prigioni, e molte volte con stupida barbarie si guariscono dalla malattia di cervello, coll' amputazione della testa!

Il genio è un' esuberanza vitale, come molte altre manifestazioni intellettuali che passano per pazzie. Leggete senza pregiudizi le vite di tutti gli eroi, e vi troverete molti sintomi di pazzia. Ogni guerra offensiva è l' azione furiosa d' un pazzo seguito da migliaia d' altri pazzi. Ogni colpo di Stato che non mena al potere, conduce direttamente al patibolo. La storia non è altro che la narrazione delle più strane pazzie dell' umanità.



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FINAL HONOURS.

**Italian.**

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A.

Translate into English :

1. —“O caro duca mio, che più di sette  
Volte m' hai sicurtà renduta, e tratto  
D' alto periglio che incontra mi stette,  
Non mi lasciar”—diss' io—“così disfatto!  
E se il passar più oltre ci è negato,  
Ritroviam l' orme nostre insieme ratto.”  
E quel signor che lì m' avea menato  
Mi disse: “Non temer, chè il nostro passo  
Non ci può torre alcun, da tal n' è dato.  
Ma qui m' attendi, e lo spirito lasso  
Conforta e ciba di speranza buona,  
Ch' io non ti lascerò nel mondo basso.”  
Così sen va, e quivi m' abbandona  
Lo dolce padre, ed io rimango in forse;  
Chè il sì e il no nel capo mi tenzona.

- (a) *Più di sette Volte*:—Mention the *sette volte*.  
(b) *Alto, disfatto, lasso in forse*:—Give Italian synonyms.  
(c) *Stetto, può, va*:—Write the tenses to which these parts belong in full; also the past participle of the same verbs.

2. Facea nell'oriente il Sol ritorno,  
Serenò e luminoso oltre l'usato.  
Quando co' raggi uscì del nuovo giorno  
Sotto l'insegne ogni guerriero armato;  
E si mostrò quanto potè più adorno  
Al pio Buglion, girando in largo prato.  
S'era egli fermo, e si vedea davanti  
Passar distinti i cavalieri e i fanti.

Mente, degli anni e dell'oblio nemica,  
Delle cose custode e dispensiera,  
Vagliami tua virtù, sì ch'io ridica  
Di quel campo ogni duce ed ogni schiera:  
Suoni e risplenda la lor fama antica,

Fatta dagli anni omai tacita e nera;  
Tolto da' tuoi tesori, orni mia lingua  
Ciò ch'ascolti ogni età, nulla l'estingua.

(a) *Vagliami, ascolti*.—What parts? Give present indicative of both verbs in full. Write sentences illustrating the position of the conjunctive personal pronoun.

(b) With what object was this poem written?

## B.

### 1. Translate into English:

Il giudice era un ometto, il quale portava bene gli anni suoi, una buona cinquantina; accorto, modesto, esperto nelle cose della legge, e quel che più vale, nelle cose del mondo; che, ovunque potesse, metteva bene; estirpava le male erbe colla mano del padre di famiglia, piuttosto che co' raffi degli articoli del codice. Ond'è che quanti lo conoscevano gli usavano rispetto e gli perdonavano volentieri un cotal vezzo innocente di cucir nei discorsi qualche bella frase di Orazio o di Tullio. All'incauta apostrofe del signor Costante, con un sorriso tra il burlone e l'ingenuo.

(a) State the part that *Il giudice* plays in the action of the story.

(b) What is the object of this work?

### 2. Translate into English:

L'indomani era giorno di festa, e avevamo tre ore di libertà più del solito. Uscii solo e me n'andai a passeggiare per la città. Camminavo circa da un' ora, quando mi accorsi d'esser seguitato alla lontana da due individui, due monellacci sullo stampo del fratello, due faccie proibite. Feci le viste di non accorgermene. Dopo un po' di tempo vidi che a quei due se n'erano aggiunti altri due, e che s'avvicinavano.—Ho capito,—dissi tra me;—sono mandati; voglion tenermi a bada; qualcosa questa sera deve seguire.

3. Write in Italian an outline of *Perchè al cavallo gli si guarda in bocca?*

## C.

1. Give the places respectively of Dante and Tasso in Italian and world literature, and sketch the life and work of the latter.

2. Write full notes on Guido Cavalcanti, Ariosto, Manzoni.

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Anglo-Saxon.

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I. (*From prescribed texts.*)

1.

- (a) Ic *thæt* londbuend, leode mine,  
selerædende secgan hyrde,  
*thæt* hie gesawon swylce twegen  
micle mearcstapan moras healdan,  
ellorgæstas: *thæra* *other* wæs,  
*thæs* *the* hie gewisslicost gewitan meahton,  
idese onlic, wæs *other* earmsceapen  
on weres wæstmum wræclastas træd,  
nefne he wæs *mara* *thonne* ænig mann *other*,  
*thone* on geardagum Grendel nemdo[n]  
foldbuende.

(b) *Tha* gewat Eadweard cyneg, and fencg Æthelstan to rice.  
*Tha* Godan sæl *thuhte*, *tha* gesohte he *thone* kynineg Æthelstan,  
and bæd *that* he him gethingude with Eadgife his boca edgift. And  
se cyng *tha* swa dyde. And heo him ealle agef buton Osterlandes  
bec. And he *tha* boc unnendre handa hire to let, and *thara* *otherra*  
mid eathmettum gethancude; and ufen an *thæt* twelfa sum hire *ath*  
sealde, for geborene and ungeborene, *thæt* *this* æfre gesett spæc  
wære. And *this* wæs gedon on Æthelstanes kynineges gewitnesse  
and his wytena æt Hamme with Læwe.

(1.) Translate the above passages.

(2.) In extract (a) scan the last five lines.

(3.) In extract (b) parse fully the following words,  
giving the principal parts of the verbs: *thuhte* (l. 2),  
unnendre (l. 5), sealde (l. 7), wytena (l. 10).

2. (a) Decline *begen* (both), *thes* (this).

(b) Conjugate throughout *witan* (to know).

II. (*Unseen.*)

3. Translate the following:

*Tha* *tha* se apostol wæs nigon and hundnigontig geara, *tha*  
æteowode him Drihten Crist mid *tham* *othrum* apostolum, *the* he of  
*thisum* life genumen hæfde, and cwæth: 'Iohannes, cum to me; tima  
is *thæt* *thu* mid *thinum* gebrothrum wistfullige on minum gebe-

orscipe.' Iohannes *tha* aras, and eode with *thæs* Hælendes; ac he him to *cwæth*: 'Nu on sunnan-dæg, mines æristes dæg, *thu* cymst to me;' and æfter *tham* worde Drihten gewende to heofenum. Se apostol micclum blissode on *tham* behate, and on *tham* sunnan-uhtan ærwacol to *thaere* cyrcan com, and *tham* folce, fram hancrede *oth* undern, Godes gerihta lærde, and him mæssan gesang, and *cwæth* *thæt* se Hælend hine on *tham* dæge to heofonum gelathod hæfde.

#### 4. Turn the following into Anglo-Saxon :

(1.) At a certain time the abbess commanded all the most learned men to assemble at the monastery that it might be decided by the judgment of them all whether this gift was (come) from the Lord himself

(2.) Ethelred, Lord of the Mercians, sent the pious monk into exile that he might die there.

(3.) When the proud ealdorman heard that, he led his loved son to the battle and ordered him to fight till he fell.

(4.) As soon as the priests had gone away, the Archbishop Ælfric came to Rome; and the Pope received him with great reverence and commanded him on the morrow to say mass at St. Peter's.

### III.

5. Show the derivation of the following verbs from cognate nouns or adjectives: to *heal*, to *quell*.

6. Give a four-column analysis of the following words, naming all the processes of change: *Monday*, *every*, *indict*, *mint*.

7. Give a brief account of Boethius' *De Consolatione*, and state the question which has been raised regarding the authorship of the *Metra*.

Queen's University Examinations: April, 1902.

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HONOURS.

English.

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FIRST PAPER.

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1.

I.

- (1) But first 'tis fit to tell how she could muse  
And dream, when in the serpent prison-house,  
Of all she list, strange or magnificent :  
How, ever, where she will'd, her spirit went ;  
Whether to *faint Elysium*, or where  
Down through tress-lifting waves the *Nereids* fair  
Wind into *Thetis' bower* by many a pearly star ;  
Or where God Bacchus drains his cups divine,  
Stretch'd out, at ease, beneath a glutinous pine ;  
Or where in *Pluto's gardens palatine*  
*Mulciber's* columns gleam in far piazzian line.

- (2) I still had loved  
The exercise and produce of a *toil*,  
*Than analytic industry to me*  
*More pleasing*, and whose character I deem  
Is more poetic as resembling more  
Creative agency. The song would speak  
Of that *interminable building* reared  
By observation of affinities  
In objects where no brotherhood exists  
To passive minds. My seventeenth year was come ;  
And, whether from this habit rooted now  
So deeply in my mind, or from *excess*  
*In the great social principle of life*  
Coercing all things into sympathy,  
To *unorganic natures* were transferred  
*My own enjoyments; or the power of truth*  
*Coming in revelation, did converse*  
*With things that really are.*

(a) Compare and characterize the style of the above passages.

(b) Characterize the rhythmical qualities of each passage and give a *full* metrical analysis of the first six lines in each, with suitable comments.

(c) From what poems are the above extracts taken?



In extract (1) explain the meaning of the phrases italicized, and in extract (2) explain carefully, first, the general significance of the passage and, second, the precise meaning of the parts in italics.

## II.

2. Name the poems from which the following passages are taken. Explain briefly the significance of each passage in connection with the general purport of the poem from which it is taken.

- (a) To think that now our life is only drest  
For show ; mean handy-work of craftsman, cook,  
Or groom !—We must run glittering like a brook  
In the open sunshine, or we are unblest.
- (b) The dragon's wing, the magic ring,  
I shall not covet for my dower,  
If I along that lowly way  
With sympathetic heart may stray,  
And with a soul of power.
- (c) No, when the flight begins within himself,  
A man's worth something. God stoops o'er his head,  
Satan looks up between his feet—both tug—  
He's left himself i' the middle : the soul wakes  
And grows.
- (d) Plays in the many games of life that one  
Where what he most doth value must be won.
- (e) In front of these came Addison. In him  
Humour in holiday and sightly trim  
Sublimity and Attic taste combined,  
To polish, furnish, and delight the mind.
- (f) Greek endings, each the little passing-bell  
That signifies some faith's about to die.
- (g) You're grieved—still Niobe's the grander !  
You live—there's the Racers' frieze to follow :  
You die—there's the dying Alexander.
- (h) Proud was I that my country bred  
Such strength, a dignity so fair :  
She begged an alms, like one in poor estate ;  
I looked at her again, nor did my pride abate.
- (i) He from Italian songsters takes his cue ;  
Set Paul to music, he shall quote him too.
- (j) The uses of labour are surely done ;  
There remaineth a rest for the people of God :  
And I have had troubles enough, for one.

HONOURS.

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English.

SECOND PAPER.

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I.

1. (a) Explain fully Arnold's criticism of the following passage from Tennyson as "un-Homeric" in manner :

He bared the knotted column of his throat,  
The massive square of his heroic breast,  
And arms on which the standing muscles sloped  
As slopes a wild brook o'er a little stone,  
Running too vehemently to break upon it.

(b) Give Arnold's reply to the following judgment :

"The *truly* classical and the *truly* romantic," says Dr. Maginn, "are one ; the moss-trooping Nestor reappears in the moss-trooping heroes of Percy's Reliques."

(c) Give a critical estimate of Clough's hexameters.

(d) Scan the following hexameters, adding critical comments :

- (1) Black hill-sides slope down to a salt sea loch at their bases,  
Scored by runnels that fringe ere they end with rowan and alder.
- (2) There is it, there, or in lofty Lochaber, where, silent upheaving.  
Heaving from ocean to sky, and under snow-winds of September.

II.

2. (a) Point out briefly the chief autobiographical elements in the Second Book of *Sartor Resartus* (omit the Blumine episode) with brief comment or explanation :

(b) Give and explain Carlyle's criticism of the opinion of "Helvetius and his set" regarding the nature of genius.

(c) Explain what Carlyle means by the following :

- (1) "Thus was the young vacant mind furnished with much talk about progress of the species, dark ages, prejudice, and the like :

so that all were quickly enough blown out into a state of windy argumentativeness."

(2) "You discover with amazement enough, like the Lothario in *Wilhelm Meister*, that your 'America is here or nowhere.'"

(d) Explain the meaning Carlyle attaches to the following phrases : *Attorney-Logic, dim Time-Element, Motive-Grinders, an absentee God, Mechanical Profit-and Loss Philosophies.*

(e) Illustrate the general character and qualities of Keats's poetic work from the poem of *Isabella*. Treat both style and matter.

3. Name the poems from which the following passages are taken. Explain briefly each passage in connection with the general purport of the poem from which it is taken.

- (a) Her smooth, domestic life  
Affectionate without disquietude  
Her talk, her business, pleased me ; and no less  
Her clear through shallow stream of piety  
That ran on Sabbath days a fresher course.
- (b) Here work enough to watch  
The master work, and catch  
Hints of the proper craft, tricks of the tool's true play.
- (c) No officious slave  
Art thou of that false secondary power  
By which we multiply distinctions, then  
Deem that our puny boundaries are things  
That we perceive, and not that we have made.
- (d) I mourned with thousands, but as one  
More deeply grieved, for he was gone  
Whose light I hailed when first it shone,  
And showed my youth  
How verse may build a princely throne  
On humble truth.
- (e) Churchill, himself unconscious of his powers,  
In penury consumed his idle hours.
- (j) So, wiser I judged it to make  
One trial what death for my sake  
Really meant, while the power was yet mine.
- (g) The separation that is here  
Is of the grave ; and of austere  
Yet happy feelings of the dead.
- (h) Much they reckon of your praise and you !  
But the wronged great souls—can they be quit  
Of a world where their work is all to do.

### III.

4. Here Ouse, slow winding through a level plain  
Of spacious meads, with cattle sprinkled o'er,  
Conducts the eye along his sinuous course  
Delighted. There, fast rooted in their bank,  
Stand, never overlook'd, our favourite elms,  
That screen the herdsman's solitary hut ;  
While far beyond, and overthwart the stream,  
That, as the molten glass, inlays the vale,  
The slooping land recedes into the clouds ;  
Displaying on its varied side the grace  
Of hedge-row beauties numberless, square tower,  
Tall spire, from which the sound of cheerful bells  
Just undulates upon the listening ear,  
Groves, heaths, and smoking villages remote,

(a) Illustrate from the above passage the characteristics (1) of Cooper's diction, (2) of his versification. Explain generally the position he occupies in the evolution of poetic style.

(b) Compare his manner of describing external nature with that of Wordsworth.

5. (a) Strange ! there should be found,  
Who, self-imprison'd in their proud saloons,  
Renounce the odours of the open field  
For the unscented fictions of the loom ;  
Who, satisfied with only pencill'd scenes,  
Prefer to the performance of God  
The inferior wonders of an artist's hand !  
Lovely indeed the mimic works of Art ;  
But Nature's works far lovelier. I admire,  
None more admires, the painter's magic skill,  
Who shows me that which I shall never see,  
Conveys a distant country into mine,  
And throws Italian light on English walls.  
But imitative strokes can do no more  
Than please the eye—sweet Nature every sense.

Discuss the opinion here expressed and show how characteristic it is in general of this poet's criticism of life.

(b) *Ode Intimations of Immortality*. State clearly the movement of the poet's thought in this poem. Explain the fundamental idea in it and quote passages from the *Prelude*, or any other of Wordsworth's poems, which further illustrate that idea.



HONOURS.

**English.**

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THIRD PAPER.

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I.

1. Trace the historical origin of the sonnet form. Show the bearing of Dante's theory of the stanza on the orthodox or Petrarchan form of the sonnet. Explain the evolution of form represented by the English or Shakespearean sonnet.

2. (a) Compare the early form of decasyllabic verse in the *Chanson de Roland* with that in Chaucer's *Compleynt unto Pitee*. Show precisely the amount of development which the measure has received. Compare Chaucer's management of this decasyllabic verse with the verse of the prologue to the *Canterbury Tales*.

(b) Compare Chaucer's treatment of the Legend of Dido with that of Virgil as illustrating the difference between the classical and mediaeval spirit.

*Instead of the preceding questions, extra-mural students may take one of the following questions:—*

3. Give an account of Browning's *Cleon*, bringing out clearly the following points:—(1) *Cleon's* analysis of the illogical character of man's constitution, (2) the stage of philosophical development represented by *Cleon*, (3) Browning's view of the general result achieved by Greek philosophy.

4. (a) Give and discuss Emerson's analysis of Bonaparte's powers in *Literary Ethics*. How does he apply the lesson to the work of the scholar?

(b) Explain the manner in which Emerson means the following sentences (from *Literary Ethics*) to be understood, and the place they have in his teaching :—

Be lord of a day, through wisdom and justice, and you can put up your history books.

All vision, all genius, comes by renouncing the too officious activity of the understanding, and giving leave and amplest privilege to the spontaneous sentiment.

(c) Point out the characteristic merits and defects of Emerson's style.

## II.

5. (a) Give an outline of the comparison Arnold makes between Pagan and Mediaeval Religious Sentiment in the essay of that title, and state the general conclusion he reaches. Notice also the characterisation he gives of the spirit of the Renaissance, of the Reformation, of the 18th century, of the Greek spirit in the age of Sophocles.

(b) What does Arnold mean by the "Corinthian style," and what examples does he give of it in his essay on *The Literary Influence of Academies*?

7. State clearly the view given in the under mentioned writings of the spiritual condition or development of man at the different epochs indicated. Do this in a way which will show that all the three writers, Arnold, Ruskin, and Browning, give a consistent and really coherent view of the evolution of human spirit in religion, art, and letters :

(1) Arnold's characterisation of Sophocles (in *Pagan and Mediaeval Religious Sentiment*).

(2) Browning's *Cleon*.

(3) Browning's *Fra Lippo Lippi*.

(4) Ruskin's criticism of Raphael (*Modern Painters*).

(5) Browning's *The Bishop Orders His Tomb*.

(6) Arnold's description of the spirit of the Reformation (*Pagan and Mediaeval Religious sentiment*).

*Note.*—In other words show that the views which the

above works give regarding the evolution of the human spirit form a consistent and coherent whole.

### III.

7. (a) State the chief distinctions which Ruskin marks (1) in the use of the *Pathetic Fallacy*, (2) on the subject of *False* and *True Finish* in art.

(b) Give and consider Ruskin's critical remarks on the following passages :—

- (1) The spendthrift crocus, bursting through the mould  
Naked and shivering, with his cup of gold.
- (2) Whose changing mound and foam that passed away,  
Might mock the eye that questioned where I lay.
- (3) O, say what angry power Elpenor led  
To glide in shades, and wander with the dead ?  
How could thy soul, by realms and seas disjoined,  
Outfly the nimble sail, and leave the lagging wind ?

(c) Give an estimate of Scott as a novelist, illustrating your remarks by references to the *Antiquary*.





HONOURS.

**History,**

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FIRST PAPER.

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1. Who constituted the Anglo-Saxon Witenagemote? What were its powers?
2. Trace the development in Anglo Saxon history from the personal to the territorial system.
3. Stubbs styles the Norman Conquest a period of transition. Explain his meaning.
4. Explain the powers and the sources of the jurisdiction of the Manorial Courts, Court Baron, Court Customary and Court Leet.
5. Stubbs says, "The Anglo-Saxon system of vassalage grew out of the law, not out of the land." Explain this.
6. What was the form of Church investiture under the Norman kings? Explain the compromise between Henry I. and Anselm.
7. What were the sources of the royal revenue under the Norman kings? How was the rating determined? State any changes which took place.



HONOURS.

**History.**

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SECOND PAPER.

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1. When did the House of Commons assert the following rights and privileges :—(a) that supplies were made dependent on redress of grievances ; (b) that all money bills must originate in the Commons ; (c) the right of inquiring into public abuses, and controlling the administration ; (d) the right of the Commons to determine contested elections.

2. “ The Parliaments of the 13th century were the concentration of local representation in and with the national council. It was no small step in this direction when the action of Curia Regis was brought into direct connection with the Shiremoot.” Explain this.

3. Roger de Hoveden says :—

Ricardus rex Angliae in captione Henrici Romanorum imperatoris detentus, ut captionem illam evaderet, consilio Alienor matris suae, deposuit se de regno Angliae et tradidit illud imperatori sicut universorum domino, et investivit eum inde per pilleum suum: sed imperator sicut praelocutum fuit, statim reddidit ei, in conspectu magnatum Alemanniae et Angliae, regnum Angliae praedictum, tenendum de ipso pro quinque millibus librarum sterlingorum singulis annis de tributo solvendis, et investivit eum inde imperator per duplicem crucem de auro. Sed idem imperator in morte sua de omnibus his et aliis conventionibus quietum clamavit ipsum Ricardum regem Angliae et haeredes suos.

Explain the circumstances and the full meaning of the act.

4. Explain the statutes De religiosis, of Provisors, and Praemunire, and of Quia Emptores.

5. "Every representative government is in its nature illegitimate."—Rousseau. "The ideal government is representative government."—Mill. Show how Rousseau and Mill arrived at conclusions so opposite.

6. Discuss Guizot's statement that "the right of sovereignty does not belong to any person."

HONOURS.

**History.**

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THIRD PAPER.

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1. Give a sketch of the development of the Parochial system under the Tudors, especially as affected by the confiscation of the monasteries.

2. Contrast the constitutional results of the civil war (1641) with those of the revolution (1688).

3. In what respects may the House of Lords be regarded as representative? Mention any changes in this respect.

4. Distinguish the several religious parties in the reign of Charles I. and during the Commonwealth.

5. Trace the history of legal ideas regarding impeachment, and illustrate by the cases of Strafford, Danby, Sacheverel, and of the Tory Ministers in Queen Anne's reign. Why is impeachment virtually impossible under the present form of government?



HONOURS.

**History.**

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FOURTH PAPER.

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1. What were the terms of the Test Act? How did it affect Scotland? Under what circumstances was it repealed? What was the attitude of Lord North in regard to its repeal?

2. What was the attitude of parties to the Catholic Relief Bill? What were the views of George III.?

3. Give an outline of the proceedings against John Wilkes. State the terms of Fox's Libel Bill. What was determined as to the right of Juries in the case of Libel?

4. Under what circumstances was Sir Robert Peel called to form a Ministry on the fall of the Melbourne Administration? How far did he assume responsibility of the King's Act? State his views.

5. According to the Constitution of the United States who has the power of calling out the militia, or of declaring war?

6. Compare the form of procedure in the House of Representatives with the form in the British House of Commons.

7. In Canada with whom rests the power of confirming or disallowing Provincial Acts? What were the views of the Hon. Mr. Blake?





HONOURS.

**Philosophy.**

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FIRST PAPER.

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1. How does Plato establish the principle of Not-Being? What is the value of his conclusions?

2. Show how Plato applies the idea of μέτρον to determine the nature of the good. How far is this idea adequate?

3. Interpret and examine Plato's theory of desire.

4. "There are many other things of far diviner nature than man, such as.....the constituent element of the universe." Is Plato in agreement with this statement of Aristotle's? Examine this doctrine.

5. State Plato's deduction of self-motion and estimate its value.

6. Discuss the general significance of the idea of Τέλος in Aristotle, and show in what way it is found in Plato's proof for the existence of God.



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HONOURS.

**Philosophy.**

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SECOND PAPER.

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1. De Interpret, 16a, 12-13. *περὶ γὰρ σύνθεσιν καὶ διαίρεσιν ἔστι τὸ ψεῦδος καὶ τὸ ἀληθές.*

Explain this statement, showing the relation of judgment to real existence.

2. Pr. Analytic, 25b, 32-35. *ὅταν οὖν ὅροι τρεῖς οὕτως ἔχωσι πρὸς ἀλλήλους ὥστε τὸν ἔσχατον ἐν ὅλῳ εἶναι τῷ μέσῳ καὶ τὸν μέσον ἐν ὅλῳ τῷ πρώτῳ ἢ εἶναι ἢ μὴ εἶναι, ἀνάγκη τῶν ἄκρων εἶναι συλλογισμόν τέλειον.*

Explain the principle on which Aristotle determines the relation of the three terms in a syllogism. Why does he regard the first figure as the "perfect" type? Illustrate each of the figures by a concrete instance.

3. Post. Analytic, 93b, 16-18. *συλλογισμὸς μὲν τοῦ τί ἐστίν οὐ γίνεται οὐ δ' ἀποδείξις, δῆλον μέντοι διὰ συλλογισμοῦ καὶ δι' ἀποδείξεως.*

What is the relation of demonstration to definition? Illustrate Aristotle's meaning by the case of an eclipse of the moon.

4. Post. Analytic, 94a, 21-22. *αἰτίαι δὲ τέτταρες, μία μὲν τὸ τί ἦν εἶναι, μία δὲ τὸ τίνων ὄντων ἀνάγκη τοῦτ' εἶναι, ἑτέρα δὲ ἣ τι πρῶτον ἐκίνησε, τετάρτη δὲ τὸ τίλος ἔνεχα*

Give instances of the various "causes" here enumerated, pointing out their relations to one another.

5. State the three rules for definition, and explain the

reason for each of them and for the order in which they occur.

6. Post. Analytic, 98b, 2-5. εἴτε τὸ αἷτιον ὑπάρχει ἄμα καὶ τὸ αἰτιατόν, οἷον εἰ ἐν μέσῳ ἢ γῇ, ἐκλείπει, ἢ εἰ πλατύφυλλον, φυλλορροεῖ.

What answer does Aristotle give to the problem here raised? Can there be on his view a plurality of causes?

7. Post. Analytic, 99b, 22-26. τῶν δ' ἀμέσων τὴν γινῶσιν, καὶ πρότερον ἢ αὐτὴ ἐστὶν ἢ οὐχ ἢ αὐτὴ, διαπορήσειεν ἂν τις, καὶ πρότερον ἐπιστήμη ἐκατέρου ἢ οὐ, ἢ τοῦ μὲν ἐπιστήμη τοῦ δ' ἕτερον τι γένος, καὶ πρότερον οὐκ ἐνοῦσαι αἱ ἕξεις ἐγγίνονται ἢ ἐνοῦσαι λελήθασιν.

Give Aristotle's answer to the questions here asked, indicating the successive stages in the process of knowledge.

HONOURS.

**Philosophy.**

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THIRD PAPER.

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1. Can the *cogito ergo sum* be admitted in the limited meaning given to it by Descartes?
2. State and criticise the reasoning by which Descartes seeks to prove the existence of God.
3. Is Spinoza's conception of thought and extension as "attributes" compatible with his assertion of the unity of substance?
4. On what grounds does Spinoza deny teleology? How far is that denial valid?
5. "The greater is our joy, the greater is our progress to perfection, and our participation in the divine nature." Explain this saying by reference to the general ethical theory of Spinoza, and estimate the value of that theory.
6. State the main points in the *Monadology* of Leibnitz, and criticise his doctrine.



HONOURS.

**Philosophy.**

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FOURTH PAPER.

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1. Criticise Kant's distinction of analytic and synthetic judgments. What is the relation of that distinction to the doctrine that knowledge is limited to phenomena?

2. Give the "transcendental" exposition of space, and explain what is meant by "transcendental ideality." If Kant's view is not accepted, how would you defend the universality and necessity of mathematical judgments?

3. "The same function which gives unity to various ideas in a *judgment* also gives unity to the mere synthesis of various ideas in a *perception*; and this synthesis, in its most general expression, is the pure conception of understanding." Explain this passage, and criticise Kant's method of deriving the categories from the logical forms of judgment.

4. What is Kant's "proof" of causality? What in his view is the relation of this principle to substantiality and reciprocity? Do you find any inadequacy in his way of conceiving this relation?

5. State and criticise the "critical" solution of the First Antinomy.

6. How does the theoretical reason contribute to the solution of the problem of freedom? Explain and examine Kant's doctrine that freedom can only be positively established by the practical reason.

7. What are Kant's three formulæ of moral action? Estimate their relative value.

8. Distinguish between the "determinant" and the "reflective" judgment. Is the distinction ultimately valid?





HONOURS.

**Philosophy.**

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FIFTH PAPER.

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1. Das Leben Gottes und das göttliche Erkennen mag also wohl als ein Spielen der Liebe mit sich selbst ausgesprochen werden; diese Idee sinkt zur Erbaulichkeit und zur Fadheit herab, wenn der Ernst, der Schmerz, die Geduld und Arbeit des Negativen darin fehlt.

Explain this passage, and compare Hegel's conception of God with Green's "eternally complete self-consciousness," and Bradley's "Absolute."

2. Der Geist, der sich so entwickelt als Geist weiss, ist die Wissenschaft.

Explain what Hegel means by "spirit," and state the relation of phenomenology to logic.

3. Give a summary of the dialectical movement of the sensuous consciousness.

4. Characterize stoicism, and show how it gives rise to scepticism.

5. What are the characteristics of "das unglückliche Bewusstseyn," and how is the transition made to the stage of "Vernunft?"



HONOURS.

**Philosophy.**

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SIXTH PAPER.

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(Any five questions.)

1. What are Hegel's objections to the doctrine that the State is founded on contract?

2. Discuss Hegel's conception of self-determination, as it is found in "Morality." Does the conception appear in the "Ethical Order?" If so, in what way?

3. What is Hegel's view of conscience? Examine any forms of perverted conscience.

4. In the absolutely free will are inclinations suppressed or realized? How does Hegel answer this question?

5. How does Hegel conceive of the relation of Church to State? Examine his view.

6. What does Hegel mean by the process of Dialectic? Illustrate from the Philosophy of Right, and consider the value of the method.



HONOURS.

**Philosophy.**

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SEVENTH PAPER.

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1. "The universe is one in this sense that its differences exist harmoniously within one whole, beyond which there is nothing." Is it possible on Bradley's method to establish this proposition?

2. "In judgment we find thought in its completed form." "Thought consists essentially in the division of a *what* and a *that*." Examine these statements with reference to Bradley's view that "thought is something less than reality."

3. "Time by its inconsistency directs us beyond itself." In what sense is this proposition understood by Bradley? Is there a sense in which it is true?

4. "That experience should take place in finite centres, and should wear the form of finite *thisness*, is in the end inexplicable, but is not incompatible with the absolute." Is the distinction defensible?

5. How does Bradley dispose of Solipsism? Does his method seem to you satisfactory? If not, how would you deal with it?

6. "Both nature and my body exist necessarily with and for one another. But we find in each no essence which is not infected by appearance to the other." Is this contrast tenable?



PRELIMINARY HONOURS.

**Political Science.**

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FIRST PAPER.

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1. Account for the development and the political importance of the so-called fiction of adoption.
2. Discuss the origin of property, and its growth in relation to contract.
3. Trace the connection between the Roman conveyance and the Roman will.
4. What were the chief economic consequences, of the lack of a circulating medium among the early settlers of Upper Canada?
5. Explain the relation of the first Canadian banks to the foreign exchanges. Why did some of the merchants object to the banks dealing in exchange?





PRELIMINARY HONOURS.

**Political Science.**

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SECOND PAPER.

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1. What is the real nature of economic competition ? Is it essentially opposed to custom ?

2. Why was so much importance attached, in the first half of the Nineteenth Century, to the problem of Malthus ? What has lessened the practical importance of this problem at the present time ?

3. What is the Law of Diminishing Returns ? In what directions is it most effective at the present time ?

4. Outline the more important features of the situation, in Britain and Canada respectively, when the great emigration of 1827-32 took place. What immediate influence did it have upon Canada ?

5. What were the chief defects of the land-granting system in Canada up to 1838, and what effect had they upon the development of the country ?

6. What changes, affecting Canada, took place in the commercial aspects of the British colonial policy between 1818 and 1830 ?



FINAL HONOURS.

**Political Science.**

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FIRST PAPER.

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1. Discuss Aristotle's conception of the essential nature of the state.
2. Account for the development and the political importance of the so-called fiction of adoption.
3. Discuss the origin of property, and its growth in relation to contract.
4. What influence did Roman law have upon the moral and theological doctrines of Western Europe?
5. Account for the difference between the social and legal conceptions of rights.
6. What are the more intimate relations between constitutional and administrative law?



FINAL HONOURS.

**Political Science.**

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SECOND PAPER.

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1. What does Bosanquet mean by the paradox of self-government? How far is his proposed solution of it adequate?

2. Whence comes the right of the individual to criticize the law while required to obey it?

3. Critically examine Bosanquet's theory as to the right of the state to punish.

4. Examine Bluntschli's distinction between a people and a nation; also his conception of the rights of nationality.

5. Criticize Bluntschli's view as to the mortality or fall of states.

6. Examine Mill's view as to the proper extension of the suffrage.



FINAL HONOURS.

**Political Science.**

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THIRD PAPER.

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1. What is the real nature of economic competition? Is it essentially opposed to custom?

2. Why was so much importance attached, in the first half of the Nineteenth Century, to the problem of Malthus? What has lessened the practical importance of this problem at the present time?

3. How far was the policy expressed in the Statute of Apprentices realized by that measure? What occasioned its failure in other respects?

4. What connection with the slave trade had British foreign commerce and colonial expansion?

5. What, according to Wells, was the significance of the tendency among the nations, towards the close of the past century, to revert to restrictive commercial legislation?

6. What were the chief defects of the land-granting system in Canada up to 1838, and what effect had they upon the development of the country?





FINAL HONOURS.

**Political Science.**

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FOURTH PAPER.

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1. On what necessary assumptions does Smith's theory of rent depend? How far are these assumptions at present valid?

2. Compare the views of Smith and Mill with reference to the nature and scope of capital; pointing out what is involved in each conception.

3. Examine, in the light of present conditions, Mill's view as to the tendency of profits to a minimum.

4. Illustrate, by reference to Smith, Mill and Seligman, the development of the essential features and principles of taxation.

5. How far can the difficulties connected with double taxation be overcome?

6. What is Ingram's conception of the influence upon economics of Malthus's work on Population? What criticism have you to make on it?



FINAL HONOURS.

**Political Science.**

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FIFTH PAPER.

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1. "We find no basis for a firm State-power in our ordinary selves; culture suggests one to us in our *best self*."—Arnold. What is the full significance of this statement? How does it compare with Bosanquet's conception of the State as the expression of our *real self*?

2. Discuss the advantages and disadvantages of symbols, as understood by Carlyle.

3. Give a critical estimate of Carlyle's judgment on British economic methods and policy, in his chapter on "The English."

4. What special features in European political, economic, and social conditions favour the growth of socialism?

5. Outline the development of Nihilism in Russia, and estimate its significance for the future of the empire.

6. Under what conditions may trades-unions improve the economic position of their members, without injury to the general prosperity of the country and, hence, to themselves?



HONOURS.

**Modern Synthetic Geometry.**

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1. Define similar triangles, and show that their areas are proportional to the squares on corresponding sides.

Are equiangular polygons necessarily similar? If not, what further condition is required?

2. Three concurrent lines are drawn perpendicular to the sides of a triangle. State and prove:

(a) The relation between the segments into which the sides are divided.

(b) The relation between the lengths of the perpendiculars, the lengths of the sides, and the area of the triangle.

3. Prove that if the vertices of two triangles connect concurrently their sides intersect collinearly. Discuss fully the case in which the vertices of one triangle lie on the sides of the other.

4. (a) Show that the inverse of a circle is in general a circle, and determine the point corresponding to the centre.

(b)  $A, B, C$  are three collinear points and  $O$  any other point. Show that the centres of the circumcircles of the triangles  $OBC, OCA, OAB$  are concyclic with  $O$ .

5. Show that the difference of the squares on the tangents from any point to two circles is proportional to the distance of the point from their radical axis; and deduce the locus of a point that moves so that the ratio of the tangents from it to two fixed circles is constant.

6. Show that the six centres of similitude of three circles lie three by three on four straight lines, and that the three circles of similitude are coaxal.

7. When are two ranges homographic? Inscribe in a given circle a triangle whose sides shall pass through three given points.



**Algebra, I.**

1. Prove that the remainder when  $f(x)$  is divided by  $x-a$  is  $f(a)$ .

If  $f(x)$  is divided by  $(x-a)(x-b)$  prove that the remainder is: 
$$\frac{(x-a)f(b)-(x-b)f(a)}{b-a}$$

2. What is the connexion between Harmonic Progression in Algebra and Harmonic Division in Geometry?

Insert 5 harmonic means between 1 and 2.

3. Prove from first principles that  $r \cdot {}^nC_r = n \cdot {}^{n-1}C_{r-1}$ , and deduce the value of  ${}^nC_r$ .

Show that  $\frac{1}{2} \cdot 11!$  distinct cubes can be made with twelve equal coloured rods.

4. If  $(1+x)^n = c_0 + c_1x + c_2x^2 + \dots + c_nx^n$ , prove that

$$c_0c_r + c_1c_{r-1} + c_2c_{r-2} + \dots + c_{n-r}c_n = \frac{2n!}{(n-r)!(n+r)!}$$

5. Factor linearly in  $x$  and  $y$  the expression  $10x^2 + 15y^2 + 10xy + 20x - 10y + 18$ .

6. Define a convergent to a continued fraction, and prove the rule for forming the successive convergents.

7. If  $e$  denote the value of  $\left(1 + \frac{1}{n}\right)$  when  $n = \infty$ , prove that 
$$e^x = 1 + x + \frac{x^2}{1!} + \frac{x^3}{3!} + \dots$$

Sum the series:  $1 + 2 + \frac{3}{2!} + \frac{4}{3!} + \dots$  to  $\infty$ .

3. Prove that a determinant vanishes if the constituents of one row or column are proportional to those of another.

Prove that: 
$$\begin{vmatrix} \beta & \gamma & \gamma & +a & a & +\beta \\ \beta' & +\gamma' & \gamma' & +a' & a' & +\beta' \\ \beta'' & +\gamma'' & \gamma'' & +a'' & a'' & +\beta'' \end{vmatrix} = 2 \begin{vmatrix} a & \beta & \gamma \\ a' & \beta' & \gamma' \\ a'' & \beta'' & \gamma'' \end{vmatrix}$$





HONOURS.

**Trigonometry, I.**

1. Trace the changes in sign and magnitude of the functions  $\sin^2\theta \cos\theta$  and  $\sin\theta + \cos\theta$  for all values of  $\theta$ . What is the period of each function?

2. Find a general expression for all angles having the same cosine as  $\theta$ , and explain, with diagram, why it is that when  $\cos\theta$  is given we get two values for  $\sin\frac{1}{2}\theta$  and  $\cos\frac{1}{2}\theta$ .

3. (a) Express as the product of factors :

$$\sin\theta + \sin\varphi + \sin\psi - \sin(\theta + \varphi + \psi)$$

(b) If  $\tan\frac{3\theta}{4}\tan\frac{3\varphi}{4}\tan\frac{3\psi}{4}=1$  and  $\theta + \varphi + \psi=0$ , prove that :

$$\tan\frac{3\theta}{4} + \tan\frac{3\varphi}{4} + \tan\frac{3\psi}{4} = \cot\frac{3\theta}{4} + \cot\frac{3\varphi}{4} + \cot\frac{3\psi}{4}.$$

4. (a) In any triangle prove that :

$$\tan\frac{1}{2}(A-B) = \frac{a-b}{a+b} \cot\frac{1}{2}C.$$

(b) If the escribed circle opposite to  $A$  is equal to the circum-circle, prove that  $\cos A = \cos B + \cos C$ .

5. Prove that  $\frac{\sin\theta}{\theta} = \cos\frac{\theta}{2} \cos\frac{\theta}{2^2} \cos\frac{\theta}{2^3} \dots$  to  $\infty$ .

6. The angular elevation of the summits of two spires which appear to be in a straight line is  $\alpha$ ; the depressions of their reflections in still water are  $\beta$  and  $\gamma$ ; and the height of the observer's eye above the water is  $e$ . Show that the horizontal distance between the spires is :

$$\frac{2e \cos^2 \alpha \sin(\beta - \gamma)}{\sin(\beta - \alpha) \sin(\gamma - \alpha)}$$

7. Solve the equation :

$$\cos^{-1}(x + \frac{1}{2}) + \cos^{-2}x + \cos^{-1}(x - \frac{1}{2}) = \frac{3\pi}{2}.$$



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**Practical Science, and Conics I.**

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(Candidates in Practical Science will take sections I. and II., and candidates for honours will take sections II. and III.)

**I.**

1. (a) Find the point which divides the join of two given points in a given ratio.

(b) Prove that the medians of a triangle are concurrent.

2. (a) Find the condition that  $ax + by + 1 = 0$  may be perpendicular to  $a'x + b'y + 1 = 0$ .

(b) Find the condition that the lines expressed by  $ax^2 + 2hxy + by^2 = 0$  may be perpendicular to one another.

3. Write the general equation of a circle, and explain the geometrical significance of each of its three parameters.

4. (a) Define a conic section, and obtain its equation with the principal axis as  $x$ -axis, and a vertex as origin.

(b) Prove that the parabola has a constant subnormal.

**II.**

5. (a) Give the conditions which determine that a variable line passes through a fixed point.

(b) If the sum of the reciprocals of the intercepts on the axes is constant the line passes through a fixed point.

6. (a) Find the  $m$ -equation of the tangent to a circle.

(b) Tangents are drawn from (5, 6) to the circle  $x^2 + y^2 = 9$ . Find the angle between these tangents.

7. (a) Prove that the polar equation of any conic is  $\frac{l}{r} = 1 + e \cos \theta$ ; the focus being pole.

(b) The sum of the reciprocals of the parts into which the focus divides any focal chord is constant.

### III.

8. In the triangle  $P_1P_2P_3$ , find the equations of the perpendiculars, and prove that they are concurrent.

9. (a) Define inverse points with respect to a circle, and through them define pole and polar, and conjugate points.

(b) If two circles cut orthogonally the end-points of any diameter of the one are conjugate with respect to the other.

10. (a) Find the equation of the normal to a parabola in terms of its own direction.

(b) Show that the locus of perpendicular normals is a parabola.

11. (a) If  $\varphi$  be the eccentric angle of a point on an ellipse, prove that  $\tan \varphi = \frac{a}{b} \tan \beta$ ; and thence show that  $\tan(\varphi + \frac{\pi}{2})$  represent conjugate diameters.

(b) The locus of the point of intersection of two tangents at points whose eccentric angles differ by a constant, is an ellipse.

12. If a rectangular hyperbola circumscribe a triangle, it passes through the orthocentre.

HONOURS.

**Synthetic Solid Geometry.**

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1. From a given point without a plane draw a normal to the plane. Show also how to draw a normal to a plane at a given point in the plane.

2. Show that the joins of the mid-point of opposite sides of a skew quadrilateral bisect each other.

3. What are reciprocal three-faced corners? Find the relations between their plane and dihedral angles, and show, by example, how they may be used to derive new properties of three-faced corners from known properties.

4. How many regular polyhedra are there? Find the number of edges, faces, and corners in each.

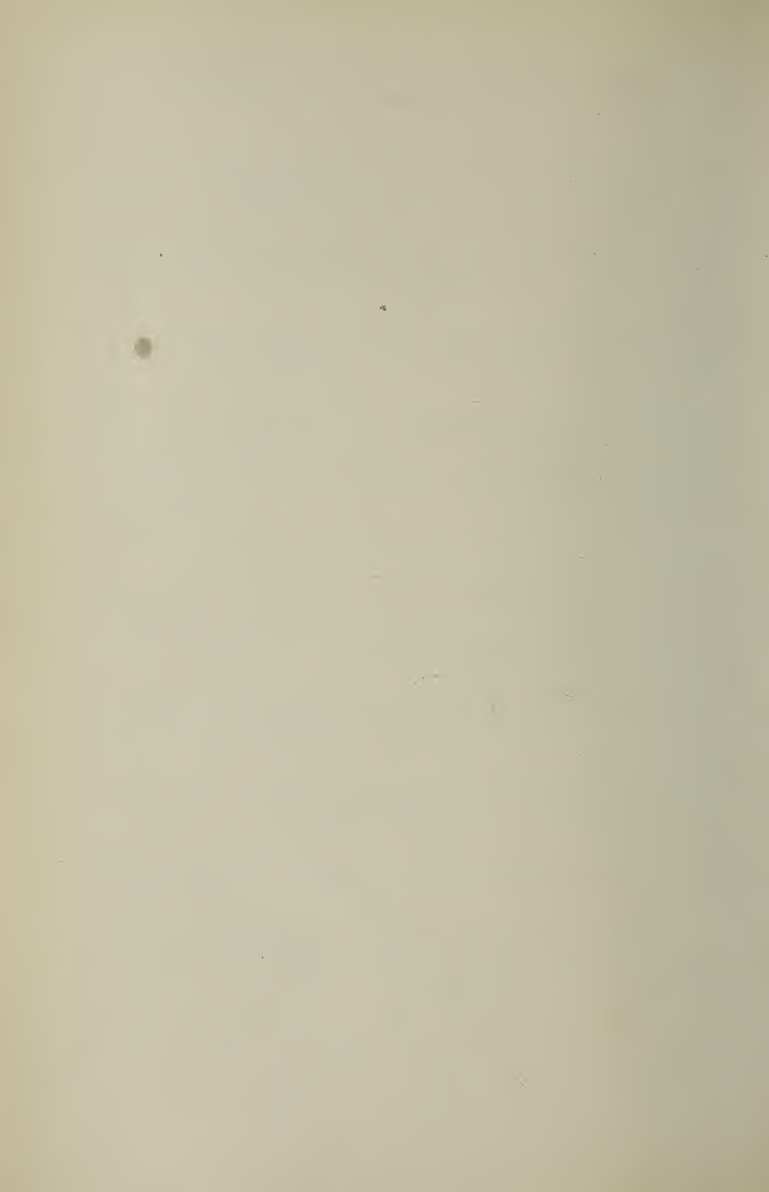
5. Express the volume of a tetrahedron in terms of the areas of two faces, the edge common to the faces, and the dihedral angle between the faces.

6. Prove Pappus' Theorem for finding the volume contained by a surface of revolution, and apply it to find the position of the mean centre of a sector of a circle.

7. Show that a conic and any point in its plane may be projected into a circle and its centre.

Prove by projection that if the sides of two triangles intersect collinearly their vertices connect concurrently.

8. Show that the sum of the angles of a spherical triangle is greater than a straight angle. Is there any superior limit to their sum?



HONOURS.

**Algebra, II.**

1. Show that every recurring simple continued fraction is a root of a quadratic equation with rational coefficients. What are the peculiarities of a C.F. that represents a pure surd?

2. When is a continued fraction said to be equivalent to a series? Show that the C.F.

$$\frac{u_1}{1 - \frac{u_2}{u_1 + u_2} - \frac{u_1 u_2}{u_2 + u_3} - \frac{u_2 u_4}{u_3 + u_4} - \dots}$$

is equivalent to the series  $\sum u_n$ .

Prove that  $\frac{\pi}{4} = \frac{1}{1} - \frac{1^2}{2} + \frac{3^2}{2} - \frac{5^2}{2} + \dots$

3. Show how to sum the series whose  $n$ th term is  $f(n) \frac{x^n}{n!}$ , where  $f(n)$  is a rational integral fraction of  $n$ .

Work out the case in which  $f(n) = n^4$ .

4. Show that the numbers 10101, 101010101, 1010101010101, ..... cannot be primes in any scale of notation.

5. Find the number of integers less than and prime to  $N$ . If  $\varphi(N)$  denote this number, and if  $\mu$  and  $N$  be mutually prime, prove that  $\varphi(\mu N) = \varphi(\mu)\varphi(N)$ .

If  $d(N)$  denote the sum of the divisors of  $N$ , show that  $d(\mu)d(N) = d(\mu N)$ .

6. The probabilities of  $n$  mutually exclusive events are  $p_1, p_2, \dots, p_n$ . What is the probability of one at least happening? Give full reasons for your answer.

7.  $n$  persons meet by chance; what is the probability that all have the same birthday, supposing every fourth year leap-year?





HONOURS.

**Trigonometry. II.**

1. Prove that  $\cos \Sigma a = \prod \cos a - \Sigma s_2 c_{n-2} + \Sigma s_4 c_{n-4} \dots$   
where  $c_r \equiv$  the product of  $r$  cosines, &c.

2. Express  $2 \cos n\theta$  in terms of the powers of  $\cos \theta$ .

3. Develop the series  $\cos \theta = 1 + \frac{2a}{2!}\theta^2 + \frac{(2a)^2}{4!}\theta^4 + \dots$  and explain the meaning of the indeterminate  $a$ .

4. (a) Find the type linear factors of  $x^n + 1$ , (1) when  $n$  is even, and (2) when  $n$  is odd.

(b) Separate  $\frac{1}{x^n + 1}$  into its partial fractions with linear denominators.

5. Show that the limit of  $\frac{1 \cdot 5}{3^2} \cdot \frac{7 \cdot 17}{9^2} \cdot \frac{13 \cdot 17}{15^2} \dots$  is  $\frac{1}{2}$ .

6. Expand  $\frac{\cos \theta}{1 + 2x \sin \theta + x^2}$  in a series by functions of multiples of  $\theta$ .

7. Obtain the development

$$\sec^n \theta = 2^n \left\{ \cos n\theta - n \cos(n+2)\theta + \frac{n(n+1)}{2} \cos(n+4)\theta + \dots \right\}.$$

8. If  $\cos \theta = m \sin(\theta + a)$ , develop  $\theta$  in terms of function of multiples of  $a$ .

9. Find the generating functions of

$$(a) \ x \cos \theta - \frac{x^2}{2} \cos 2\theta + \frac{x^3}{3} \cos 3\theta - + \dots$$

$$(b) \ x \sin \theta - \frac{x^2}{2} \sin 2\theta + \frac{x^3}{3} \sin 3\theta - + \dots$$



PRACTICAL SCIENCE AND PRELIMINARY HONOURS.

**Calculus, I.**

(Practical Science candidates will take sections I. and II., and Honour candidates will take sections II. and III.)

**I.**

1. (a) Demonstrate the rule for differentiating the product of two functions of  $x$ ; and thence deduce the rule for differentiating a power of a function of  $x$ .

(b) Find  $\frac{du}{dx}$  when  $u = (1 + x + \frac{1}{x^2})^n$ .

2. Differentiate the following functions :

(a)  $u = \sin(1 - x^2)$ ; (b)  $u = \tan^{-1} \frac{x}{a}$ ;

(c)  $u = \log(x + \sqrt{1 + x^2})$ .

3. (a) Obtain the conditions which determine a maximum or a minimum and distinguish between them.

(b) A clock weight is limited in lateral dimensions and in its fall. Find its length that it may do the maximum amount of work in falling.

4. Integrate: (a)  $\int \frac{dx}{1 + x^2}$ ; (b)  $\int \cos^3 \theta \sin \theta d\theta$ ;

(c)  $\int_0^1 \frac{x^2 dx}{\sqrt{1 - x^2}}$ .

**II.**

5. Find  $\frac{dy}{dx}$  from the following: (a)  $y = x^{\log x}$ ;

(b)  $x \sin y - y \tan x = 0$ .

6. Find the equation of the tangent of the curve  $\left(\frac{x}{a}\right)^n + \left(\frac{y}{b}\right)^n = 2$ , at the point of contact  $(a, b)$ ; and show

that at this point all the curves got by varying  $n$  touch one another.

7. (a) Find an expression for  $\tan \varphi$  in a polar curve.

(b) For the curve  $r=a^\theta$  the angle  $\varphi$  is constant. Prove this and give its geometrical meaning.

8. (a) Find an expression for the perpendicular from the origin to the tangent in a polar curve.

(b) Deduce the *p.r.* equation for the curve whose polar equation is  $r=2a \cos \theta$ .

9. Find the moment of inertia, and the radius of gyration of an isosceles triangle about a line through the vertex parallel to the base.

### III.

10. (a) Derive the expression  $\rho=(1+p^2)^{\frac{3}{2}}/q$  for the radius of curvature.

(b) Show that in a central conic the radius of curvature is the cube of the normal divided by the square of the semi-latus-rectum.

11. The cycloid being  $x=a(\theta-\sin \theta)$ ,  $y=a(1-\cos \theta)$ , find its area and its length.

12. Find the asymptotes to the curve

$$2y^2-3xy+2x-y+5=0.$$

13. If  $u=\frac{1}{a^2+x^2}$  show that

$$\frac{d^n u}{dx^n} = \frac{(-1)^n n!}{a^{n+2}} \sin(n+1)\theta \sin^{n+1} \theta, \text{ when } \tan \theta = \frac{a}{x}.$$

14. Given  $u=\sin(m \sin^{-1} x)$ , show that

$$(a) (1-x^2)D^{n+2} - (2n+1)D^{n+1} - (n^2-m^2)D^n = 0.$$

(b) In the expansion of  $u$  in terms of  $x$

$$a^{n+2} = \frac{n^2-m^2}{(n+1)(n+2)} a_n.$$

$$(c) \sin mz = \frac{m}{1} \sin z - \frac{m(m^2-1)}{3!} \sin^3 z + \dots$$

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**Analytic Solid Geometry.**

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1. (a) Determine the condition that two lines may intersect.

(b) Find the equation of a plane described by a generating line and a director line.

2. (a) If  $\Delta_x$  be the projection of the triangle  $\Delta$  on the  $x=0$  plane, &c., prove that  $\Delta = \sqrt{\Delta_x^2 + \Delta_y^2 + \Delta_z^2}$ .

(b) Find the volume of the tetrahedron  $P_1P_2P_3P_4$ .

3. (a) Define a cone, and obtain its functional equation,  $f(xy)=0$ ,  $z=0$  being the director curve and  $(\alpha \beta \gamma)$  its vertex.

(b) A line parallel to the  $x=0$  plane intersects the line  $z=c$ ,  $y=0$ , and the curve  $x^2 + y^2 = a^2$ ,  $z=0$ . Find the equation of its locus.

4. Prove that the tangent plane at any point of a hyperboloid of one sheet cuts the surface in two straight lines, and explain the meaning of this.

5. (a) Write the discriminating cubic, explaining its use.

(b) Transform  $3x^2 + 3y^2 + 2z^2 - 2yz - 2zx = 10$  to the principal axes.

6. (a) Develop a method of obtaining circular sections of a conicoid.

(b) Find the planes which give circular sections of the elliptic paraboloid.

7. Show that  $(X-x)dx + (Y-y)dy + (Z-z)dz = 0$  is a normal plane at  $(xyz)$ ; and find the equation of the consecutive normal plane.



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HONOURS.

**Differential Calculus, II.**

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1. If  $z$  is a function of  $u$  and  $v$ , which are both functions of  $x$ , prove that :

$$\frac{dz}{dx} = \frac{\partial z}{\partial u} \frac{du}{dx} + \frac{\partial z}{\partial v} \frac{dv}{dx}$$

2. If  $u$  is a homogeneous function of the  $n$ th degree of three variables  $x, y, z$ , prove that :

$$\begin{aligned} x^2 \frac{\partial^2 u}{\partial x^2} + y^2 \frac{\partial^2 u}{\partial y^2} + z^2 \frac{\partial^2 u}{\partial z^2} + 2xz \frac{\partial^2 u}{\partial z \partial x} + 2xy \frac{\partial^2 u}{\partial x \partial y} \\ + 2yz \frac{\partial^2 u}{\partial y \partial z} = n(n-1)u. \end{aligned}$$

What is the value of  $\left(x \frac{\partial}{\partial u} + y \frac{\partial}{\partial y} + z \frac{\partial}{\partial z}\right)^2 u$ ?

3. Find the expression for the angle of intersection of the curves  $f(x, y)=0$  and  $\varphi(x, y)=0$ .

At what angle do the curves  $(x^2 + y^2)^2 = c^2(x^2 - y^2)$  and  $(x^2 + y^2)^2 = 2c^2xy$  intersect?

4. Obtain the conditions that hold at a double point on the curve  $f(x, y)=0$  and distinguish the species of the double point.

Prove that the curve :

$$\begin{aligned} x^4 + 5y^4 - 4ax^3 + 7a^2x^2 + 4a^2y^2 - 4a^2xy - 6a^3x \\ + 4a^3y + 2a^4 = 0 \end{aligned}$$

has a double point, and investigate fully its nature and relation to the tangents.

5. Define the curvature and the radius of curvature at any point of a curve. Prove the formula :



$$\frac{1}{\rho^2} = \left( \frac{d^2 s}{dx^2} \right)^2 + \left( \frac{d^2 s}{dy^2} \right)^2$$

6. Obtain the conditions for a maximum value of a function of a single variable.

Show that the values of  $x$  which render the functions  $\frac{ax^2 + 2bx + c}{Ax^2 + 2Bx + C}$  a maximum or minimum are the roots of the equation :

$$\frac{ax + b}{bx + c} = \frac{Ax + B}{Bx + C}$$

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HONOURS.

**Integral Calculus, II.**

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1. Discuss briefly the integration of rational fractions.

Integrate:  $\int \frac{(\cos^3 x + 1)dx}{\sin 2x \cos 2x}$

2. Find a formula of reduction for  $\int \frac{dx}{(a + b \cos x)^n}$

3. Integrate:  $\int \frac{(x+3)dx}{(x-1)\sqrt{x^2+x+1}}$ ;  $\int \frac{\sin 4x dx}{\cos 3x}$ ;  
 $\int \sqrt{(x^2+5x+4)}dx$ ;  $\int x^5(\cos x + \sin x)e^{2x}dx$ .

4. Explain what is meant by a definite integral, and show how it may be regarded as the limit of a sum. Find the value, when  $n$  is infinite, of:

$$\frac{n}{1^2+n^2} + \frac{n}{2^2+n^2} + \frac{n}{3^2+n^2} + \dots \text{to } \infty.$$

5. Define the  $\Gamma$  function, and express

$$\int_0^{\pi} \sin^m x \cos^n x dx \text{ in terms of such functions.}$$

If  $S$  be the length of a loop of the curve  $r^{2n} = a^{2n} \cos 2n\theta$ , prove that

$$AS = \frac{\pi a^3}{2n}.$$

6. Knowing the area of the pedal of a certain curve for one origin, show how to find its area for another origin.

Find the area of the pedal of an ellipse for the extremity of its major axis.



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HONOURS.

**Finite Differences,**

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1. Define the symbols  $D$ ,  $\Delta$ ,  $E$ , and obtain the relations between them.

Prove that:  $f(x\Delta)(xE)^m u_x = (xE)^m f(x\Delta + m) u_x$ .

2. Of a series of seven consecutive values of a certain function all but the middle one are known. Show how to find its value by interpolation.

Out of 100,000 persons at the age of 10 it is found that

99,510	live to the age of 11
99,113	“ “ “ 12
98,784	“ “ “ 13
98,224	“ “ “ 15
97,942	“ “ “ 16

How many will live to be 14?

3. Investigate Weddle's rule for approximate quadrature in the form:

$$\int_0^6 u_x dx = \frac{3}{10} \{u_0 + u_2 + u_4 + u_6 + 5(u_1 + u_3 + u_5) + u_3\}.$$

4. Prove that  $\Delta^m x^{(m)} = \frac{x^{(m+1)}}{m+1} + C$ , whether  $m$  be positive or negative. In what sense is  $C$  a constant?

5. When  $x$  is large, prove that

$$x! = \sqrt{2\pi x} x^n e^{-x} (1 + \frac{1}{12x}) \text{ approximately.}$$



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HONOURS.

**Differential Equations.**

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1. Integrate the Homogeneous equation

$$f\left(\frac{y}{x}\right)dx + F\left(\frac{y}{x}\right)dy = 0.$$

Show that it represents a system of similar and similarly situated curves.

Integrate:  $y^2 + x^2 \frac{dy}{dx} = xy \frac{dy}{dx}$ , and interpret geometrically.

2. What is a singular solution of a differential equation? What does it represent geometrically? How may it be found from the primitive, and what other loci are simultaneously found?

Integrate:  $\left(\frac{dy}{dx}\right)^2 \cos y + x \frac{dy}{dx} = x \tan y$ , and find the singular solution.

3. Show that a differential equation of the second order cannot have more than two independent integrals; and, assuming these known, show how to find the primitive.

4. Prove that  $f(D+m)x = e^{-mx}f(D)e^{mx}x$ .

Integrate the equation:  $\frac{d^3y}{dx^3} + \frac{d^2y}{dx^2} - 5\frac{dy}{dx} + 3y = e^x$ .

5. Integrate the simultaneous set:

$$\frac{dx}{df} = 4x + 3y - 2; \quad \frac{dy}{df} = 4y + 3x - 2.$$

6. Find the curve in which the difference between the subtangent and the subnormal is constant.

7. Solve the equation:

$$\frac{d^2y}{dx^2} - x^2 \frac{dy}{dx} + xy = x$$

by assuming  $y = vx$ .



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HONOURS.

**Spherical Trigonometry and Astronomy.**

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1. Define the *Polar triangle*, and find the form polar to  $\cos \frac{A}{2} = \sqrt{\left\{ \frac{\sin s \sin(s-a)}{\sin b \sin c} \right\}}$ .

2. Prove any one of Napier's analogies, and show to what case, in the solution of triangles, it applies.

3. Given the three sides of a spheric triangle, show how to find an angle by means of Napier's circular parts.

4. (a) From a latitude,  $l$ , a ship sails through a distance  $D$ , on a course which cuts the meridians at constant angle  $\theta$ . Find the change in latitude, and the change in longitude.

(b) What relation has Mercator's projection to the foregoing and why?

5. (a) Explain how the earth is proved to be spheroidal in form.

(b) Given the equatorial and polar radii of curvature, show how to find the corresponding radii of the earth.

6. (a) What is geocentric, and what is apparent latitude?

(b) Develope a formula for finding the angle of the vertical in terms of the apparent latitude.

(c) Give any means of finding the apparent latitude.

7. Explain what is meant by the solar, and the lunar ecliptic limits, and show how they are determined.





HONOURS.

**Determinants and Theory of Equations.**

1. Write out the terms of  $|a_1 b_2 c_3 d_4|$  which contain  $c_2$  with their correct signs. Also write as a matrix the minor of  $a_{hk}$  in  $|a_{11} \dots a_{rr}|$  with its correct sign.

2. Show how to write the value of one unknown quantity from a set of simultaneous equations by determinants.

3. Prove that

$$\begin{vmatrix} x & a & a & \dots & a \\ a & x & a & \dots & a \\ a & a & x & \dots & a \\ " & " & " & \dots & " \\ a & a & a & \dots & x \end{vmatrix} = (x-a)^n + an^2(x-a)^{n-1}$$

4. Express the continued fraction  $\frac{1}{a_1} + \frac{1}{a_2} + \frac{1}{a_3} + \dots \frac{1}{a_n}$  as the quotient of two determinants.

5. (a) If the equation  $x^3 + 3ax^2 + 3bx + c = 0$  be put into the form  $z^3 + 3H_z + G = 0$  find the values of  $G$  and  $H$ .

(b) Show how to solve the latter equation by trigonometric means.

(c) In this way find the roots of  $x^3 - 6x + 3 = 0$  to three figures.

6. Eliminate  $x$  between the equations  $x^3 + 3ax^2 + 3bx + c = 0$  and  $x^2 + 2ax + b = 0$ , and show that the result may be written  $G^2 + 4H^3 = 0$ . What is the meaning of this condition?

7. (a) In the series of Sturm's functions prove that one change of sign is lost when  $x$  passes a root of  $f(x) = 0$  and that a change is neither lost nor gained in passing a root of  $f_r(x) = 0$ .

(b) Apply these functions to determine between what integers the real roots of  $x^4 + 2x^3 + x - 3 = 0$  lie.



HONOURS.

**Quaternions.**

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1. (a) Define the terms *Tensor*, *Scalar*, *Vector*, *Versor*.  
(b) Show that vector addition is commutative and vector multiplication is not.
2. (a) What is a quaternion?  
(b) Develop an analytical expression for a quaternion, and explain the significance of its various parts.
3. (a) Show that a quaternion may be expressed as a power of a vector symbol.  
(b) What vector is represented by the continued product of vectors representing the three sides of a triangle taken in order?
4. Prove in any way that  $V.V\alpha\beta V\beta\gamma = -\beta S\alpha\beta\gamma$ .
5.  $OA$  and  $AB$  are perpendicular to one another, and  $OP$ , a part of  $OB$ , is equal in length to  $AB$ . Find the vector equation of the locus of  $P$  with  $O$  as origin.
6. (a) Derive the vector equation of a tangent line to an ellipse, and a tangent plane to an ellipsoid.  
(b) Prove that the tangent cone to an ellipsoid touches the surface in a plane curve.



HONOURS.

Conics, II.

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1. Show that one chord at least can be drawn to a conic so as to be bisected at the origin; and find the equation of the line which bisects all chords parallel to this one.
2. (a) Show how to eliminate (1) the linears, and (2) the rectangular term from the general Cartesian equation of a conic; and (b) deduce the geometrical meanings of the invariants obtained in the latter operation.
3. (a) If  $\xi, \eta$  be the coördinates of the centre of curvature at the point  $xy$  on a central conic, determine  $x$  and  $y$  in terms of  $\xi, \eta$ , and the parameters of the conic.  
(b) Thence find the equation of the evolute of a hyperbola with origin at the centre.
4. Find the area of a triangle in terms of the trilinear coördinates of its vertices.
5. Discuss the equation  $\sqrt{la} + \sqrt{m\beta} + \sqrt{n\gamma} = 0$ ; and find the conditions under which it denotes a circle.
6. (a) Find the equation of a conic which osculates a given conic at a given point.  
(b) Find the circle which osculates an ellipse at the end-point of the axis major.
7. If a conic has double contact with two circles the chords of contact are equidistant from the radical axis of the circles.



**First Honour Physics.**

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*A. Hydrodynamics and Thermodynamics.*

1. Prove that when a fluid is subjected only to force applied at the surface, the pressure is the same at every point of the fluid. How would you illustrate this experimentally ?

2. Find the ratio of the pressures of the atmosphere at two altitudes which differ by  $h$  metres, supposing the air to be at rest and of uniform temperature.

3. A siphon-barometer is held suspended in a vessel of water by a string attached to its upper end. If  $s$  be the internal section of the tube and  $13.6$  the density of mercury, find at what rate the tension of the string changes as the barometer is lowered.

4. Find the whole pressure on a circular plate 1 metre radius immersed vertically in water with the circumference just touching the surface of the water : (1) without, (2) with the pressure of the atmosphere (equal to 10 m. of water).

5. Find the centre of pressure on the plate in 4 in both cases.

6. A spherical boiler contains steam at a given pressure ; find the tension of the boiler at any point.

7. Equal masses of the same material are formed into thin spherical vessels of given radii ; compare the greatest fluid pressures they will sustain.

8. Find the distinctive property of the capillary curve, viz., that formed by a liquid meeting a vertical wall.



9. Prove that in a perfect gas the elasticity is equal to the pressure.

10. What is an adiabatic line? Prove that at any point of an indicator diagram the inclination of the isothermal of a body to the axis of volume is less than that of the adiabatic.

11. Enunciate the second law of thermodynamics and explain how Carnot proved therefrom that a reversible engine has the greatest possible efficiency.

12. What is the greatest possible efficiency of an engine working between the temperatures  $10^{\circ}\text{C.}$  and  $130^{\circ}\text{C.}$ ?

13. Determine the relation between the two principal specific heats and the two elasticities of a substance, by means of the indicator diagram.

**First Honour Physics.**

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*B. Stereodynamics and Electrodynamics.*

1. A door is swung on hinges vertically above one another; if  $w$  denote the weight of the door,  $a$  the distance of its c. of w. from the line joining the hinges, and  $b$  the distance between the hinges, find the horizontal stress at each hinge.

2. To determine the force acting on a particle which moves uniformly in a circle. A body of 10 kilograms revolves in a circle of 1 metre radius; find in grams-weight the force acting upon it.

3. Define simple harmonic motion, and prove that it is the projection of uniform circular motion about the centre of force on a diameter, the amplitude being the radius of the circle. If  $k$  denote the strength of the centre, find the period.

4. On a calm day, in a balloon above London, it was found that a seconds pendulum made 3,597 oscillations in an hour; find the height of the balloon.

5. Prove that the path of the centre of mass of any number of projectiles is similar to that of each of the particles, viz., a parabola with its axis vertical.

6. Prove the formulas  $pv=r^2\omega=h$  for motion round a centre of force.

7. Prove that in planetary motion  $v^2=k(2a-r)\div ar$ . What does  $k$  represent?

8. If a body be supported by a vertical wire, and after rotation about the vertical line through the c. of m. be set

free, prove that the resultant rotation will be periodic. State a good practical application of this proposition.

9. Prove that the acceleration of angular momentum of any body about an axis through the c. of m. under the action of any forces, is the same as if that axis were fixed.

10. Define electric potential, and find the e. p. at any point in the field surrounding a uniformly charged spherical conductor.

11. Prove from electrodynamics that there is no electrification on the inner surface of a hollow electrified conductor, which does not enclose any electrified particles.

12.  $A$  and  $B$  are two insulated conductors. When  $A$  is alone charged with quantity  $Q$  of electricity,  $B$ 's potential is  $V$ ; what would  $A$ 's potential be, if  $B$  were alone charged with quantity  $Q$ ? Prove your answer.

13. Prove that the intensities at any two points in the same line of force in any electrical field are as the normal sections of the Faraday tube through these points.

PRELIMINARY HONOURS.

**Botany.**

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FIRST PAPER.

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*Morphology.*

1. Describe any three forms of compound leaves.
2. Leaves are often modified to serve special offices. Describe any three of these modifications.
3. Mention all the parts of any common complete flower and state the use of each part.
4. Describe five ways in which leaves may be packed in the bud.
5. Define (1) a symmetrical flower, (2) a complete flower, (3) a regular flower.
6. Define (1) Monœcious, (2) Diœcious, (3) Polygamous, and give the names of any two plants belonging to each of these classes.
7. Mention and explain the terms applied to the various modes of insertion of stamens.
8. Describe the modes by which the fertilization of a flower is accomplished.
9. Why do botanists consider the tuber of the potato an underground stem?
10. Give the peculiarities of Endogens in cotyledon, leaf, and stem.



PRELIMINARY HONOURS.

**Botany.**

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SECOND PAPER.

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*Physiology and Ecology.*

1. Describe (1) the movements of naked protoplasm, (2) the movements of protoplasm enclosed in a cell-wall.

2. Describe the chlorophyll and explain its uses in the plant.

3. "Under the term 'Primary Meristem' are grouped the unformed and growing tissues at the ends of the young stems, leaves, and roots." Describe this tissue and its mode of growth.

4. How does the growth of the root differ from that of the stem ?

5. What is meant by the equilibrium of the water in the plant, and in what ways may the equilibrium be disturbed ?

6. Xerophytic plants possess certain adaptations for reducing transpiration. Describe any three of these.

7. Describe any two forms of Symbiosis among plants and give examples.

8. Explain any three ways in which plants defend themselves against herbivorous animals.

9. Plants make use of animals to distribute their seeds. What adaptations exist for this purpose ?

10. How do Leguminous plants as peas, beans, clovers, &c., secure their nitrogen ?



PRELIMINARY HONOURS.

**Botany.**

THIRD PAPER.

*Practical Botany.*

1. Write a list of the plants in the bundle submitted in the following tabular form:—

No.	Order.	Genus.	Species.

2. Select from the bundle one specimen of each of the following orders and describe it under the heads, (1) Root, (2) Stem, (3) Leaves, (4) Flowers, (5) Fruit.

1. Ericaceæ.
2. Scrophulariaceæ.
3. Liliaceæ.
4. Umbelliferæ.

3. What plants in the bundle have the following forms of inflorescence:—(1) Umbel, (2) Spike, (3) Raceme, (4) Corymb?

4. What plants in the bundle have the following fruits:—(1) Berry, (2) Pod, (3) Achene, (4) Drupe?





FINAL HONOURS.

**Botany.**

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FIRST PAPER.

---

*Morphology and Histology.*

1. Explain the following modes of spore embryogeny:—(1) Holoblastic, (2) meroblastic, (3) homoblastic, 4) heteroblastic, and give examples.

2. "There are three principal modes in which the development of the embryo from the spore may take place." Describe these, giving examples.

3. "There are two principal modes of origin of spores and all plants produce spores in one or other of these modes." Explain this statement.

4. Describe (1) Leucoplastids, (2) Chloroplastids. Explain their uses and how one may be replaced by the other.

5. Mention and describe briefly four of the principal cell-contents which are not protoplasmic and are confined to special cells and frequently to special plants.

6. Describe a transverse section of the stem of *Equisetum*.

7. Describe the primary tegumentary tissue and mention its uses.

8. Describe the structure of the secondary conjunctive tissue (medullary rays).

9. What are the Endodermis and Pericycle?

10. "Development of leaves only takes place at the growing point of a stem, and always by lateral outgrowth." Explain.



FINAL HONOURS.

**Botany.**

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SECOND PAPER.

---

*Physiology.*

1. State the three conditions upon which the turgidity of the cells in a living plant depends.

2. Some plants may be subjected to a very low temperature for a long time and remain uninjured ; others when frozen may be slowly thawed and restored to their normal condition ; others again when frozen are fatally disorganized. Give examples and explain the reason.

3. Discuss the influence of light on plants under two heads, (1) its chemical effects, (2) its mechanical effects.

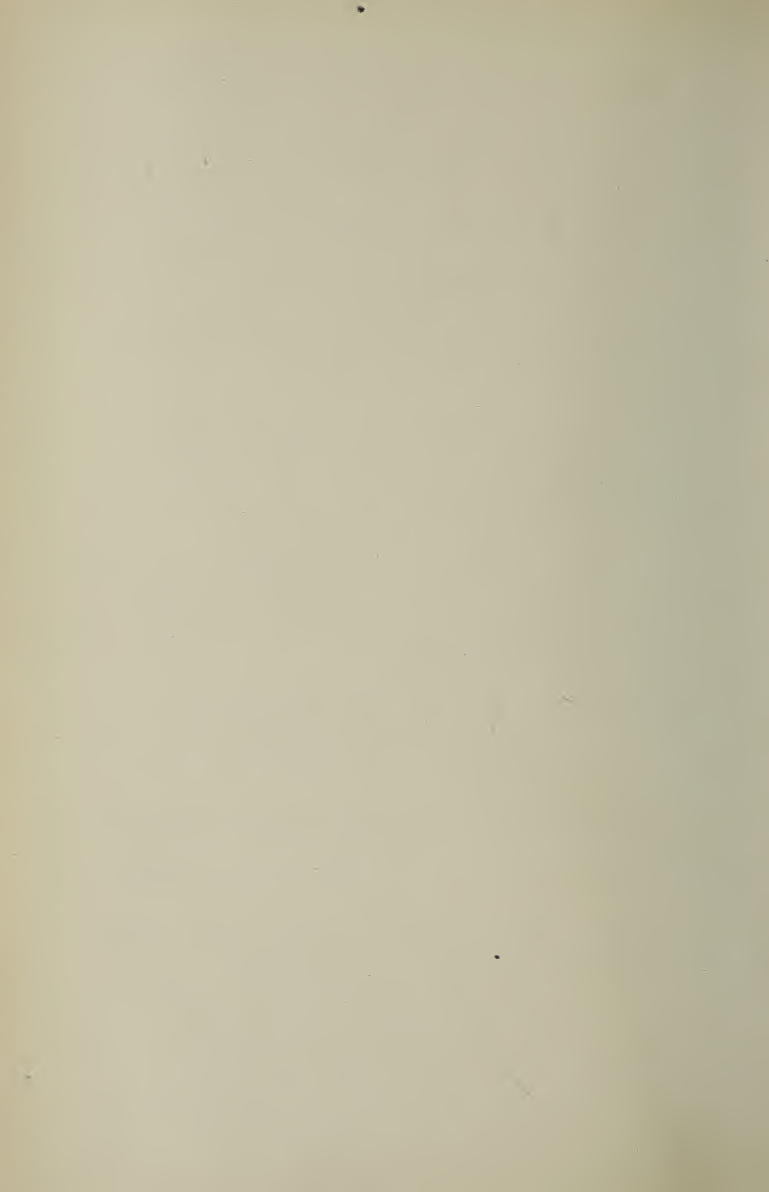
4. What adaptations exist in the tegumentary tissue to prevent excessive transpiration ?

5. Chemical elements are frequently found in the ash of plants, which are known to be present in the soil only in the form of compounds which are insoluble in water. Explain how this can be.

6. (a) In what form do all plants absorb kinetic energy ?

(b) In what form do plants which possess chlorophyll absorb it ?

(c) In what form do plants which do not possess chlorophyll absorb it ?



*Queen's University Examinations: April, 1902.*

FINAL HONOURS.

**Botany.**

THIRD PAPER.

*Practical Work.*

A.

1. Make a list of the Cryptogamia submitted, in the following form :

No.	Order.	Genus.	Species.

2. Select one Alga, one Fungus, one Moss and one Hepatica, and give the life-history of each under the heads :—1. Structure ; 2. Morphology ; 3. Reproduction.

B.

3. Make a list of the plants in the bundle submitted, in the form given above.

4. Select one specimen of each of the following families and describe it under the heads of (1) order, (2) genus, (3) species :

Filices.

Equisetaceae.

Gramineae.

Cyperaceae.



PRELIMINARY HONOURS.

**General Animal Biology.**

---

1. Sketch the development of the cranium.
2. Discuss the origin and development of the vertebrate nasal organ.
3. Describe the variations in the alimentary tract of birds and ruminants and account for the differences.
4. Describe the development of the urino-genital system of the skate, and compare with that of the frog.





PRELIMINARY HONOURS.

**Physiology.**

---

1. How does cardiac muscle differ from other kinds? What is the cause of its contraction? How is the contraction regulated? Give proof.

2. Make a drawing and mark on it the location of the thoracic and abdominal viscera as seen from the front.

3. Describe the sounds of the heart. Give the cause of each. How does change in the heart beat affect blood pressure?

4. What circumstances retard, prevent, or accelerate the clotting of blood?

5. Explain the importance of oxygen pressure in respiration.

6. Draw a diagram of the external surface of the left side of the brain and mark on it the chief centres of localization.

7. What different kinds of nerve endings are found in the skin and what sensations do they originate?



*Queen's University Examinations: April, 1902.*

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PRELIMINARY HONOURS.

**Histology.**

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1. Describe a longitudinal section of small intestine.
2. Describe a section of lung.
3. Give the histology of the liver.



PRELIMINARY AND FINAL HONOURS.

**Morphology.**

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1. Describe the anatomy of balanoglossus.
2. Describe the carpus, metacarpus, and phalanges in the pigeon and compare them with homologous bones in the frog and rabbit.
3. Describe briefly (giving location) the muscles, nerves and glands that are found in the orbital fossa of a rabbit.
4. Compare the cerebral hemispheres, optic lobes, and cerebellum in the frog, pigeon, and rabbit.
5. Compare the kidney in the fish with that in the frog, pigeon, and rabbit.



FINAL HONOURS.

**Physiology.**

---

1. Explain how endo-cardiac pressure is measured. Give a tracing. Specify measurements.
2. Describe the nervous mechanism of gastric and intestinal movements.
3. What are the influences which affect the automatic activity of the respiratory centre?
4. Trace the metabolic history of the bile pigments and bile salts.
5. Draw a diagram showing the origin of cranial nerves iii. to xii. inclusive.
6. Name the association areas of the cerebrum, and specify their connections.
7. Explain how sound waves are transmitted through the ossicles of the middle ear.





FINAL HONOURS.

**Histology.**

---

1. Describe cancellated bone.
2. What are *Ranvier's crosses*, *Fromann's lines*, *Hassall's corpuscles*, *lenticular glands* ?
3. Describe a longitudinal section of the spinal cord, from side to side through the canal.
4. Describe a graafian follicle, and a mammalian ovum.
5. Draw, describe, and identify the specimens submitted.



FACULTIES OF ARTS AND PRACTICAL SCIENCE.

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HONOURS.

**Organic Chemistry.**

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1. (a) What are *organic acid anhydrides* ?  
(b) Describe, with equations, two methods of making them.  
(c) What compounds are formed by their reaction with (1) water, (2) ammonia, (3) hydrochloric acid, and (4) alcohols ?
2. Describe the *aceto-acetic ether synthesis*, and show how the method may be used to synthesise methyl isopropyl ketone.
3. (a) Describe methods for synthesising the isomeric lactic acids. (b) Write graphic formulas for the isomers.  
(c) How is the existence of *three* isomers explained ?
4. Describe (a) a method of ascending, and (b) a method of descending the paraffin series of hydrocarbons. Give equations.
5. How can the following transformations be affected ?  
—(Give equations):
  - (a) Paraffins to alcohols.
  - (b) Amines to alcohols.
  - (c) Aldehydes to hydroxy acids with an additional carbon atom to the molecule.
  - (d) Monobasic acids to the corresponding alcohols.
  - (e) Benzene to benzoic acid.
6. Outline the chemistry of the cacodyl compounds.



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FACULTY OF ARTS (HONOURS)  
AND FACULTY OF PRACTICAL SCIENCE (COURSE B).

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**Industrial Chemistry.**

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1. Describe three styles of pyrite burners, giving the points of advantage and of disadvantage in the different burners.
2. Describe a process for making sulphuric acid stronger than chamber acid.
3. Of what does black ash consist, and how is the product of most importance obtained from it?
4. It is calculated that 4.22 volts is necessary for the decomposition of sodium chloride at the ordinary temperature. This voltage is reduced to 3.84 at the temperature of fusion of the salt, and 2.29 volts only is required for the electrolysis of the solution. How is this calculation made?
5. Describe the process of manufacture of nitric acid and some modern form of condenser used.
6. What is the typical composition of Portland cement? What other ingredients are often present and to what extent are they allowable? What is the chemistry of the setting and hardening of cement? Compare in this respect with mortar.
7. Describe the chemical character, method of manufacture, and use of any of the important pigments.
8. Describe the chemical characters of the products of the destructive distillation of wood *or* of coal tar *or* of the fractional distillation of crude petroleum.
9. Trace the process of making sugar from beets.
10. What is saponification and how is it carried out?



FACULTY OF ARTS (HONOURS)  
AND FACULTY OF PRACTICAL SCIENCE.

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**Quantitative Analysis and Assaying.**

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(Answers to questions 4, 5, 6, and 7 to be written on separate pad.)

1. Ten grammes of potassium permanganate is dissolved in water and made up to a litre. How much iron will 1 c.c. of the solution oxidise from the ferrous to the ferric state? [ $K=39\cdot15$ ,  $Mn=55$ ,  $O=16$ ,  $Fe=56$ .]

2. From 0.5 gramme of a phosphate the ignited magnesium phosphate precipitate weighs 0.3582 g. Calculate the percentage of  $P_2O_5$  in the original substance. [ $P=31$ ,  $Mg=24\cdot36$ .]

3. The precipitate of barium sulphate from 10 c.c. of a solution of sulphuric acid weighs 1.1236 g. Calculate the weight of sulphuric acid ( $H_2SO_4$ ) in a litre of the solution. [ $Ba=137\cdot4$ ,  $S=32$ .]

4. Describe a method for determining the percentage of silicon in a sample of pig-iron. Indicate stages in the process where errors are liable to occur.

5. 50 grammes commercial potassic cyanide are dissolved in 2 litres of water. 0.5 gramme pure copper is dissolved in acid as usual and the solution made up to 500 c.c. To 100 c.c. of this solution ammonia solution in excess is added and the liquid titrated with the prepared solution of potassic cyanide. 20 c.c. are required to discharge the colour. 3 grammes of copper ore are dissolved as usual, the solution made up to 500 c.c. and 250 c.c. taken for titration; excess of ammonia solution is added and the solu-



tion titrated to colourless with potassic cyanide ; 32 c.c. are necessary. Find the per cent. of metallic copper in the ore.

6. An ore consisting largely of pyrite, carbonates of copper, and silver chloride is handed you for assay. Give details of treatment, and reasons for such treatment.

7. Explain the effect of the following minerals in an ore treated by the pot assay for gold : (a) zinc blende, (b) tetrahedrite, (c) barite, (d) quartz.

HONOURS.

**Physiological Chemistry.**

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1. Discuss the synthesis (a) of carbohydrates, and (b) of albumins, in plants.
2. Describe the *lecithins*, and write an equation for the decomposition by alkalies of the lecithin most commonly found in the animal body.
3. Write notes on the *kreatins*.
4. Discuss the rôle which amido-acids play in the formation of urea.
5. Describe the principal aromatic oxy-acids found in the animal body.
6. Write notes on *inosit*.
7. (a) Write a graphic formula for *taurin*. (b) How can *taurin* be synthesised?



PRELIMINARY HONOURS.

**Chemistry.**

---

*Crystallography.*

1. Sketch the upper right front octant of the regular octahedron and show how this face is affected by combination with the following forms:— (a)  $mO$ , (b)  $mOm$ , (c)  $\left[ \frac{\infty O n}{2} \right]$ .

2. From the three unequal rectangular crystallographic axis of the orthorhombic system, deduce the simple primary forms with Naumann's symbols.

3. Give the symmetry of the hexagonal system.

4. By examples explain what is meant by "apparently holohedral hemihedrism."

5. Show how the pyramid of the third order is deduced in the tetragonal system.

6. Using as examples forms of the regular system, show what is meant by "limiting forms."



FACULTIES OF ARTS AND PRACTICAL SCIENCE.

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HONOURS.

**Qualitative Analysis.**

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1. A mixture of calcium phosphate, manganous sulphide, zinc sulphide, ferrous sulphide, cobaltous sulphide, chromic hydroxide, and aluminum hydroxide is treated with dilute HCl. and filtered. The filtrate is boiled for some time and is then boiled again with a little  $\text{HNO}_3$ . Ammonium chloride and excess of ammonia are then added. (a) Describe what takes place at each stage, and write equations for all the chemical changes. (b) Write the formulas of the compounds in the last precipitate obtained, and for the compounds remaining in solution.

2. A solution containing zinc chloride, aluminum chloride, and chromic chloride is treated with excess of NaOH., boiled, and filtered. Part of the filtrate is treated with  $\text{H}_2\text{S}$ ., and the remainder is acidified with HCl., and then treated with  $\text{NH}_4\text{OH}$ . (a) Write equations for all the chemical changes. (b) Write the formulas of the compounds present after excess of NaOH. is added. (c) What difference would it make if the boiling were omitted? (d) If  $\text{NH}_4\text{OH}$ . were used instead of NaOH?

3. A solution of cupric and cadmium sulphates, is treated with excess of ammonia and then decolourised by potassium cyanide. (a) Write the formulas of the compounds then present in the solution. (b) What is the action of  $\text{H}_2\text{S}$ . on this solution? (c) If the solution at first contained also ferric sulphate, what would be the difference in the results?

4. A mixture of calcium, strontium, and barium sulphates is fused with  $\text{Na}_2\text{CO}_3$ . Part of the fused mass is treated with dilute  $\text{HCl}$ . The remainder is digested with water, filtered, well washed, and treated with nitric acid. Describe what takes place and give the equations.

5. (a) Write equations for the reduction of potassium bichromate solution by  $\text{HCl}$ . and  $\text{H}_2\text{S}$ ., by  $\text{HCl}$ . alone, and by  $\text{Zn}$  and  $\text{HCl}$ . (b) Mention any changes in appearance in (a). (c) Describe what would take place if  $\text{NH}_4\text{OH}$ . were added to the solution before reduction and also after reduction by  $\text{Zn}$ . and  $\text{HCl}$ .

6. A solution of  $\text{AgNO}_3$  is added a little at a time to solution of  $\text{KCN}$ . until there is no further change. Describe what takes place and write the equations.

7. A solution contains either phosphoric or arsenic acid, or both. Describe carefully how you would determine which of the three cases was before you.

HONOURS.

**History of Chemistry.**

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1. Give an account of Pasteur's researches on optically active compounds.
2. (a) What researches led up to the present theory of osmotic pressure? (b) Write a short account of Arrhenius' and of Van t'Hof's contributions to the subject.
3. Write notes on Kekule's contributions to the theory of organic chemistry.
4. Show how the study of the chemical constitution of organic compounds influenced the determination of atomic weights.
5. Write historical notes on the synthesis of alizarin and of indigo.





*Queen's University Examinations: April, 1902.*

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FACULTY OF ARTS (HONOURS)  
AND FACULTY OF PRACTICAL SCIENCE.

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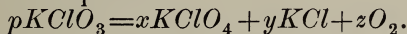
**Physical Chemistry.**

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(Not more than *eight* questions to be attempted.)

1. Calculate the value of  $R$  in the gas equation  $pv=RT$  for 10 grammes of methane, showing clearly in what units the value is expressed.

2. Discuss the problem of finding the values of the coefficients in the equation



3. Prove that the heat required to raise the temperature of 4 grammes of hydrogen through one degree centigrade, the pressure being constant, is four calories greater than that required when the gas is kept at constant volume.

4. Mixtures of certain proportions of some of the lactones and water have the peculiarity that when heated they become cloudy, but clear up when heated still more. Explain and illustrate graphically.

5. Illustrate "critical temperature, pressure, and volume" by reference to carbon dioxide (Andrews' experiments).

6. Describe the phenomena when the ordinary crystalline hydrated copper sulphate is placed in an exhausted desiccator.

7. The elevation of boiling point of a dilute solution is nearly proportional to the lowering of vapour pressure at any given temperature. Prove.

8. How is the electrical conductivity of a salt solution measured?

9. Describe briefly *three* methods or fully *one* method of comparing the relative strength of acids.

10. Discuss some applications of the dissociation theory of electrolytes.



PRELIMINARY HONOURS.

**Mineralogy.**

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*Crystallography.*

1. Sketch the upper right front octant of the form  $mOn$  and write on each face Miller's symbol.

2. "Inasmuch as the three lateral axes in the hexagonal system are fixed in their mutual inclinations at  $60^\circ$ , the intersection of two of them by any plane at distances  $n$  and 1 from the centre, determines the point of intersection on the third axis by the same plane, as  $\frac{n}{n-1}$  from the centre." Prove this.

3. Give the axial system for triclinic minerals and develop the primary forms, giving Naumann's and Miller's symbols for each form.

4. Axial ratio. What is the meaning of this term? Show how the axial ratio is obtained for crystals of the tetragonal system.

5. What is meant by "physical constants" in the case of a triclinic mineral?

6. Give three examples of distortion in different systems and show what forms the distorted forms simulate. Use sketches and write Naumann's symbols on the faces.

7. Explain the  $s$  and  $x$  faces on the prismatic crystals of quartz.



FINAL HONOURS.

**Mineralogy.**

---

*Descriptive and Determinative.*

1. Give in detail the crystallography of the following minerals—(a) tourmaline, (b) scapolite, (c) marcasite, (d) chalcocite, (e) native copper.

2. Give the optical properties of the following minerals : (a) enstatite, (b) zircon, (c) gypsum.

3. Discuss titanium as a mineral forming element.

4. By diagrams show the relations between chemical composition and optical characters in the cases of the plagioclase feldspars.

5. Calcite and dolomite are arranged in the "calcite group". Why is this not strictly in accordance with Dana's principles of classification? Give detailed reasons and show how the evidence is obtained.

6. Sketch a crystal of corundum, showing the directions of the striae and explain the cause of these.



PRELIMINARY HONOURS.

**Geology.**

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1. Show that man is always less or more influenced by the geographical conditions of the region he occupies.
2. Describe the physical conditions which attended the accumulation of the Lower Silurian strata of eastern Ontario.
3. What evidence have we of changes in the level of lake Ontario during Quaternary times?
4. Discuss the origin of Laurentian limestones.
5. Write an account of the iron ores of Ontario.
6. What evidence have we of the former presence of volcanoes in Ontario?





*Queen's University Examinations: April, 1902.*

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FACULTIES OF ARTS AND PRACTICAL SCIENCE.

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PASS AND HONOURS.

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**Economic Geology.**

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1. Write a short paper on natural and artificial cements.
2. From what minerals are the compounds of arsenic produced? What uses are made of these compounds?
3. Give a list of refractory materials mined in Canada, and write notes on their modes of occurrence.
4. What minerals are produced in Ontario and Quebec for use in the manufacture of chemicals?
5. Write notes on the clay industry.
6. Describe the sulphide ores of Sudbury and Rossland.
7. State the economic uses, if any, made of beauxite, celestite, cryolite, magnesite, molybdenite, ozokerite, and pitchblende. Give the localities with modes of occurrence of any of these which are found in Canada.
8. Define the following terms:—Dip-fault, fahlband, flucan, pitch, segregated-vein, quâ-quâ-versal.
9. What are the essential qualities of a good building stone?
10. Give a classification of mineral waters.



*Queen's University Examinations: April, 1902.*

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FACULTIES OF ARTS AND PRACTICAL SCIENCE.

---

PASS AND HONOURS.

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**Geology.**

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FIRST PAPER.

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1. Explain the following terms—overlap, dip-fault, terrane, geanticline, quâ-quâ-versal, segregation vein.
2. By what means has the density of the earth been determined?
3. Describe the geological effects produced by the action of plants and animals.
4. Give an account of the experiments which have been made in the artificial production of rocks.
5. Write a short paper on climate in its geological relations.
6. Give a classification of ocean currents. What theories have been proposed to account for their occurrence?
7. Describe the process of weathering as illustrated by limestone and granite.
8. Give a classification of volcanoes and write notes on their geographical distribution.



*Queen's University Examinations: April, 1902.*

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FACULTIES OF ARTS AND PRACTICAL SCIENCE.

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FINAL HONOURS.

**Geology.**

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1. Give a brief account of Hutton's "Theory of the Earth."

2. Write a short account of the work of each of five prominent geologists of the Nineteenth century.

3. Along what lines are the chief advances likely to be made in geology during the next twenty-five years?

4. Characterize, briefly, the Canadian Cretaceous and Miocene systems.

5. Give a classification of the pre-Cambrian rocks of Canada.

6. Draw up a list of economic minerals which are supposed to be of igneous origin, and state under what conditions each mineral mentioned by you occurs.

7. Write notes on the mountain chains of North America.

8. What different uses can be made of a knowledge of glacial geology in economic work?

9. Write notes on lake Agassiz.

10. You are given charge of a party of five to examine an unexplored district which is two hundred miles distant from supplies. The work is to take four months and travelling is to be by canoes. State what preparation you would make for the trip.



FACULTIES OF ARTS AND PRACTICAL SCIENCE.

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PASS AND HONOURS.

**Palaeontology.**

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1. Give a classification of the trilobites and characterize briefly each of the following—asaphus, calymene, triarthrus.
2. Define the following genera—columnaria, favosites, michelina, syringopora, cystiphyllum.
3. Trace the development of the cephalopoda through Palæozoic and Mesozoic times.
4. Write notes on Palæozoic brachiopoda.
5. Give a list of Carboniferous plants and state the characteristics of each form mentioned by you.
6. What evidence have we of life in pre-Cambrian times?
7. Write notes on the vertebrate life of the Palæozoic.
8. Trace the development of the mammalia from the beginning of the Mesozoic.





FACULTIES OF ARTS AND PRACTICAL SCIENCE.

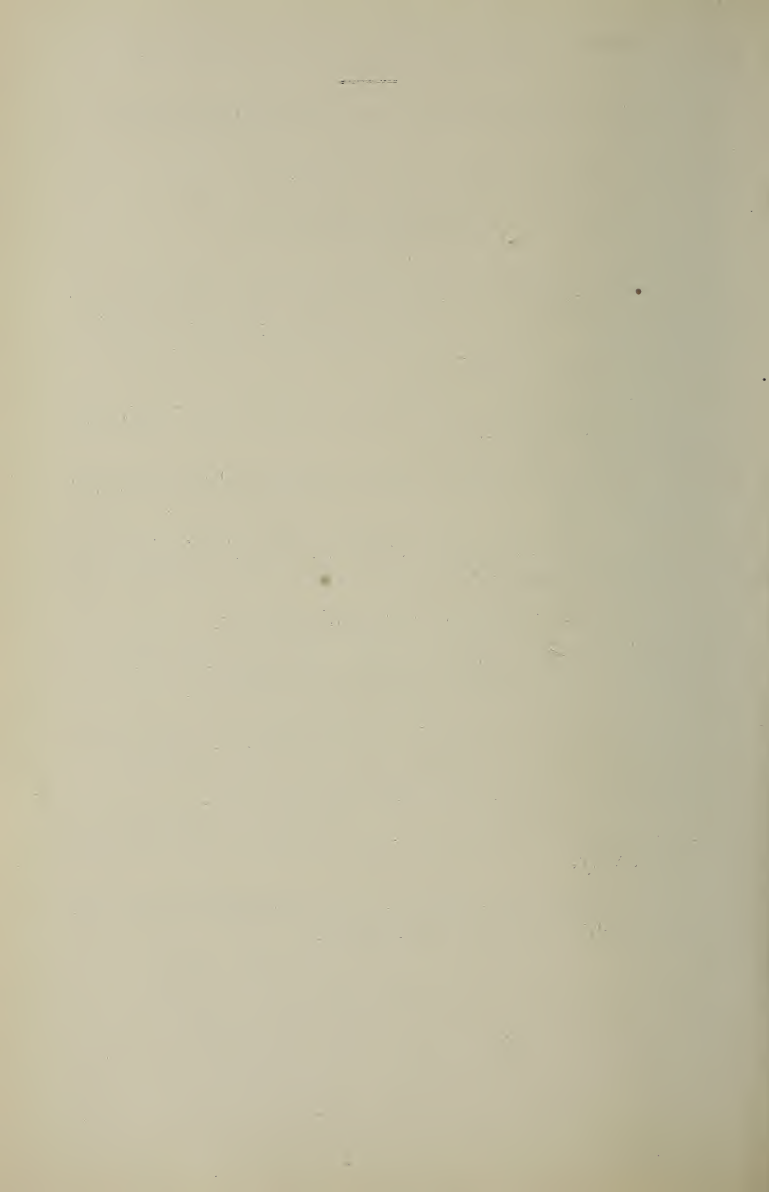
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PASS AND HONOURS.

**Petrography.**

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1. Give the microscopic characters of the following minerals—andalusite, anorthite, calcite, chlorite, serpentine, tourmaline. Name rocks in which each of these minerals is an essential constituent.
2. What are the chief alteration products of orthoclase and augite respectively?
3. Write notes on the origin of amphibolite and garnetiferous gneiss.
4. Explain the terms—ophitic, feldspathoid, porphyry, porphyrite, granophyric.
5. Give an account of the syenite family.
6. Write notes on the origin of Laurentian limestone and state what minerals it commonly contains.
7. Illustrate by means of the feldspars what use can be made of heavy solutions and microchemical tests.
8. Give a list of ultra-basic igneous rocks.
9. Name the hand specimens labelled A, B, C, D, E, F, respectively.
10. Describe by means of the microscope the two thin sections submitted for examination.



FACULTIES OF ARTS AND PRACTICAL SCIENCE.

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PASS AND HONOURS.

**Geology of Canada.**

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1. Outline, roughly, the areas occupied by the Upper Silurian in Ontario, and name the more characteristic fossils in each formation.

2. Give a classification of the pre-Cambrian rocks of Ontario.

3. Give a sketch of the geology of Nova Scotia.

4. Describe fully the Appalachian district of Quebec.

5. Give a classification of the post-Cainozoic deposits of Canada.

6. "Two great physical features dominate the geology of British Columbia." State what these are and describe them.

7. Give a brief account of the geology of the Yukon territory.

8. Write notes on the origin of the economic deposits of graphite, apatite, and iron ores found in Ontario.

9. Compare the Sudbury mining district with that of Rossland.



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## PRACTICAL SCIENCE.

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For Papers in

Junior English,  
Junior and Senior Chemistry,  
Elementary Mineralogy and Blowpipe Analysis,  
Geology,

See Arts Pass Papers.

For Papers in

Conics I.,  
Calculus I.,  
Chemistry, Organic,  
    "    Industrial,  
    "    Physical,  
Mineralogy, Crystallography,  
    "    Descriptive and Determinative,  
Geology, Economic,  
    "    General,  
    "    Palaentology,  
    "    Petrography,  
    "    of Canada,

See Arts Honour Papers.

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FACULTY OF PRACTICAL SCIENCE.

MINING ENGINEERING COURSE.

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**Industrial Chemistry,**

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1. How has natural sulphur been probably formed and how is it obtained from the ore? How is sulphur recovered in the purification of coal gas?
2. Give as many uses as you can of sulphur dioxide.
3. Describe three styles of pyrites burners, giving the points of advantage and of disadvantage in the different burners.
4. Describe a process of making sulphuric acid stronger than chamber acid.
5. Describe the process of making hydrochloric acid.
6. Of what does black ash consist, and how is the product of most importance obtained from it?
7. What is Dunlop's method for the recovery of manganese dioxide from "still liquor" containing manganese chloride?
8. Compare the functions of the Gay Lussac and the Glover towers.





FACULTY OF PRACTICAL SCIENCE.

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PASS.

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**Systematic Mineralogy.**

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1. Using diagrams, describe the modern petrographical microscope.

2. In the description of the mineral titanite, the following mineralogical terms are used :

(a) monoclinic,  $\beta = 60^\circ 17'$ .

(b) pleochroism feeble, c, red with tinge of yellow ; b, yellow, often greenish ; a, nearly colourless.

(c)  $Ax. pl. \parallel b$ .

(d)  $Bx \wedge c = +51^\circ$ .

(e) Dispersion  $\rho > v$ . large.

(f) Axial angles variable.

Using diagrams, explain what each term means and show how the various phenomena are observed.

3. By sketches show how the faces of the tetragonal forms, viz., pyramid of first order and pyramid of second order, are related to the axes, and write Naumann's symbols on the faces.

4. By examples explain what is meant by "artificial minerals."



FACULTY OF PRACTICAL SCIENCE.

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PRELIMINARY HONOURS.

**Mineralogy.**

---

*Systematic Mineralogy.*

1. "A study of the physical properties of a crystal aids us very much in properly understanding the meaning of its external form." Show the truth of this statement.
2. Show how the indices of refraction are obtained for the hexagonal mineral tourmaline.
3. Prove that  $n = \frac{\sin i}{\sin \rho}$ ,  $n$  being the index of refraction,  $i$  the angle of incidence, and  $\rho$  the angle of refraction.
4. Explain the cause of polarization colours exhibited when a vertical section of a tourmaline crystal is observed on the stage of the microscope between crossed nicols in parallel polarized light.
5. Using diagrams explain what is meant by "dispersion of the bisectrices," and describe "inclined dispersion."
6. Give details for the preparation of Thoulet's solution and show how it is used in a rock analysis.



FACULTY OF PRACTICAL SCIENCE.

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PASS.

**Mineralogy.**

---

*Descriptive and Determinative.*

1. By what forms are the following minerals recognized, (a) vesuvianite, (b) nepheline, (c) analcite, (d) natrolite, (e) augite?
2. Describe the following mineral species, (a) native silver, (b) argentite, (c) pentlandite, (d) tetrahedrite.
3. Give with composition the zinc minerals used as ores.
4. Give with composition all the minerals containing arsenic and describe two found in Ontario.
5. Distinguish between (a) stibnite and bismuthinite, (b) quartz and opal, (c) orthoclase and albite.
6. Give the occurrence of the following: (a) graphite, (b) molybdenite, (c) spinel, (d) cyanite, (e) titanite.
7. Give the blowpipe characteristics of (a) niccolite, (b) cerussite, (c) fluorite, (d) quartz, (e) stilbite.
8. What are the members of the following groups: (a) hematite, (b) halite, (c) calcite?



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**Ore Dressing**—Third Year.

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1. Distinguish between the Blake and Dodge jaw crushers. For what class of work is the latter especially adapted?

2. What advantages have the narrow faced high speed rolls over the Cornish rolls?

3. Show by sketches the action of the Krupp ball mill. How does it compare with rolls for fine crushing?

4. What is the objection to a single cylindrical self contained trommel fitted with screens for separating three or more sizes? Describe three ways of arranging a set of trommels to do this work, giving the advantages of each method.

5. Compare the gold stamp milling practice of Gilpin Co., Colorado, with that of California, and show how the percentage of extraction is influenced by (a) screen, (b) depth of discharge, (c) number of drops per minute, (d) shape of mortar. How do these effect the capacity?

6. Distinguish between "flouring" and "sickenig" of mercury in stamp battery practice. Also describe briefly the various ways in which gold can escape into the tailings.

7. Assuming Rittinger's formulae for free fall of average grains of mineral in water, viz.,  $v = 2.44 \sqrt{D(\delta - 1)}$ . Calculate the diameter in meters of particles galena, Sp. Gr. 7.5, sphalerite Sp. Gr. 4.0, quartz Sp. Gr. 2.6, that will fall with a velocity of .244 meters per second in still water. Also find Rittinger's equal settling multi-



plers of galena and sphalerite compared with quartz. How do Richard's experimental results compare with these figures?

8. (a) How may a Harty jig be used in these different ways with regard to the method of withdrawing the concentrates, stating the relation of the mesh of the jig sieve to the size of material treated and describe the jig bed in each case? (b) What class of material would make a good bed for coal washing? (c) Explain why the sands from a spigot of a hydraulic classifier can be concentrated on a jig.

9. Describe the Evans time table and explain how concentration is effected.

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**Metallurgy**—Third Year.

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1. Define calorific power and calorific intensity. Given the calorific power of C burnt to  $\text{CO}_2$  as 8,080 calories, what would be the thermoetical calorific intensity of C, if burnt in O to  $\text{CO}_2$ ?

Specific heat of  $\text{CO}_2 = \cdot 22$ .

Why is this temperature not even approximately attainable?

2. Discuss the relative importance of wood, peat, lignite and bituminous and anthracite coals in the manufacture of prepared metallurgical fuels, giving reasons.

3. Give the important chemical equations for the production of (a) water gas (b) producer gas. Describe the manufacture of one of them.

4. What constitutes a good refractory material and give examples from the acid, basic and neutral classes.

5. Give a classification of irons, mentioning the necessary constituents.

State briefly the effect of Mn, S, P and W on steel.

6. What connection is there between the properties of an alloy and of the constituent metals in general with regard to melting point, specific gravity, colour, tensile strength, and as conductors of electricity.

7. Describe briefly three ways for making steel from pig-iron.

8. How is zinc obtained from its ores and why is it

necessary to get a product fairly free from lead and iron before smelting?

9. Describe the O'Hara roasting furnace and mention the chief defects and how they have been partly overcome in later hearth furnaces.

10. What are the properties of a good blast furnace slag? Give the chemical composition of a slag that would give good results in a copper blast furnace.

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**Metallurgy**—Fourth Year.

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1. Given a roasted copper ore containing 50% Fe., 10% Cu., 15% S., from which a 40% math is made in one smelting.

Calculate the weight of quartz that should be charged with 3,000 lbs ore, to make a good B. F. slag.

How many pounds of coke will probably be required?

2. What regulates the length and width of a copper blast furnace and on what does the height of the ore column in the furnace depend?

3. Discuss the pyritic smelting of copper ores from the point of view of economy in fuel. To what extent is it successful?

4. Describe the wet methods of copper extraction in use for treating the low grade sulphide ores at Rio Tinto.

5. Describe Parks' process for extracting silver from lead bullion, and compare it with the Pattinson and Cupellation processes.

6. (a) How is silver extracted from its ore leaching with sodium-hyposulphite ( $\text{Na}_2 \text{S}_2 \text{O}_3$ )?

(b) What is the Ziervogel process for recovering silver from copper matte?

7. Describe the various classes of pig iron manufactured, and state briefly how the furnace should be run to make each class.

8. How is Bessemer steel manufactured? Distinguish between the acid and basic Bessemer processes.

9. What is meant by saying a steel is hot short, red short, cold short?

What impurities are liable to cause these troubles, and what percentage is admissable?

10. How may sulphur be removed before, during, and after smelting the ore in the blast furnace?

11. Describe some method of producing aluminum by an electro metallurgical method.

Why is it so difficult to reduce aluminum from its ores in the dry way?

**Mining**—Third Year.

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1. Describe the method of boring with a diamond drill and show how a large mass of ore could be prospected by this means. Suggest some other form of drill that could be used for prospecting for coal in a limestone formation.
2. Discuss the effect of weathering or surface oxidation on masses of low grade (a) copper pyrites, (b) quartz containing gold originally locked up in pyrites or in combination with tellurium, and show in both cases how a workable ore may result.
3. Describe the method of searching for mineral veins by following "float," (a) in a district where the rivers have been the main denuding agents, (b) when there has been considerable glaciation.
4. Show by sketches how the valve of a rock drill can be actuated by a lever moved by the piston rod. Give your ideas as to the advantages of an air moved valve.
5. Why is the name nitroglycerine not strictly correct? What is the substance and how is it manufactured and what precautions must be taken? Give examples of the various classes of dynamite.
6. Would it be advantageous to use a high or low explosive in conducting the following classes of work? (a) Tunneling through hard country rock, (b) working a coal seam, (c) blasting soft porous vein matter, (d) working a galena deposit. Give reasons for your answer.
7. State briefly the relative advantages of opening up a vein by adits, tunnels, or an inclined or vertical shaft, and under what conditions the method is applicable.

8. Explain the method of working a thin coal seam by the longwall, both advancing and retreating. What are the conditions that determine which method should be employed?

9. Explain the method of working a 6' vein by overhand stopping and compare this method of recovering the ore with underhand stopping.

10. Show by sketches how a wide vein can be worked, using the square set timbering. What other methods may be employed for recovering all the ore and how do they compare with the square set?

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**Mining**—Fourth Year.

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1. Show how a level can be driven through running on soft ground when it is necessary to support the roof and sides ahead of the drift.

2. What are advantages and disadvantages of unwatering a mine by surface engines compared with direct acting pumps placed in the lower workings?

3. Show by a diagram the arrangement of the valves of a force pump worked by rods from the surface. Why does a plunger usually give better satisfaction than a lift pump?

4. What are the objectional gases that the coal miner has to contend with? stating the effect upon respiration, to what extent explosive, and where they are liable to accumulate in the mine.

5. What quantity of air will pass through an airway 6'x5' cross section and 10,000' long with a ventilating pressure equal to 1'' water-guage? assuming  $k=.000,-000,021,7$  in the formulae  $p=\frac{ksv^2}{a}$ .

6. Why is it advisable to divide or split the ventilating air current of a mine? Calculate the H. P. required to pass 30,000 cu. ft. of air per minute in three splits 2,000', 1,500' and 1,000' long respectively and all 4'x5' in cross section when an equal quantity of air is required for each split and box regulators are employed.

7. Describe the original Clanny safety lamp, mention-



ing the defects in its construction and show how they have been overcome in more modern lamps. Also consider the locking devices.

8. Describe the main and tail and endless rope systems of haulage and compare the efficiencies.

9. Describe from ways of equalizing the load on the engine by compensating for the weight of the rope when hoisting with two cages in balance in a shaft. What is the Koepe system of hoisting?

10. Describe the Theis process of barrel chlorination, mentioning in what way it is superior to the Mears. What class of ore is especially adapted to treatment by cyanide and how does this process compare with chlorination?

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**Mechanism.**

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1. A rigid rod  $A B$  moves in any way in a plane. Find the instantaneous axis of rotation, and show that for this axis the angular velocities of  $A$  and  $B$  are equal.

2. Explain what is meant by involute teeth, and give the principal advantages possessed by gears with such teeth.

3. Calculate a train with value 480, with the least number of axes, and with no pinion less than 10, and no wheel greater than 90 teeth.

4. The radii of two pulleys are  $r$  and  $r'$ , and the distance between centres is  $d$ . Find the length of belt necessary to go around the pulleys; and show that for a crossed belt the length is constant if  $r + r'$  is constant.

5. Describe, with a figure, a Whitworth's "quick return," and calculate the relative dimensions of the parts so that the maximum velocity of return may be three times the minimum velocity of advance.

6. (a) Give the construction of a log-spiral wheel.

(b) Show that two log-spiral wheels, made to the same base, will roll together without slipping.

7. Show how to construct an "equal-width" cam.

8. Describe the chronometer escapement.

9. Derive the formula  $\frac{\omega - \theta}{\alpha - \theta}$  for an epicyclic train, and employ it to investigate the motion of the "sun and planet" wheels.



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**General Engineering, I.**—Second Year.

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*Materials of Construction.*

1. Describe the different kinds of stress and strain and explain how each is measured.

2. A bar of mild steel 30'' x 1'' x  $\frac{3}{8}$ '' is tested to determine its tensile strength. State as closely as you can its probable dimensions with the various critical loads, also the stresses.

3. A piece of white pine 1'' square is tested transversely, the support being 24'' apart. What would the deflection be with a load of 20 lbs.?

4. Describe Wöhler's experiments on repeated variable stresses. Explain the use of Launhardt's and Weyrauch's formulae.

5. What is the process and effect of (a) making malleable castings, (b) annealing, (c) hardening and tempering, and (d) case hardening?

6. Give the composition of good cast iron, and state the effect of variation in the proportions of the different impurities usually present.

7. Compare the effects of carbon and manganese in steel, and make a table showing the strengths of the different grades and their uses.

8. Give the average composition of the various bronzes and brasses used in engineering work and the purposes to which they are adapted.

9. Compare the effects on iron and copper of a heavy prolonged stress.

10. Write out a list of the common kinds of timber and state the kind of work for which each is specially valuable.

11. What are the chief considerations in selecting a stone for use in a structure?

12. Write out a specification for Portland cement.

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**General Engineering, II.—Third Year.**

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*Structural Engineering.*

1. Explain the terms shearing force and bending moment. Draw the diagrams for a beam of 20' span, loaded uniformly with 1 ton per linear foot.

2. A uniform load of 2 tons per linear foot moves on to the beam of question 1, find over what portion of the beam the shearing force changes its direction.

3. The normal stress  $p$  at any point of an area  $A$  varies as the distance  $y$  of the point from a principal axis of the section through the  $C. G.$  Prove that the resultant of the stresses is a couple about the principal axis of value  $\frac{p}{y} \Sigma y^2 \delta A$ .

4. Explain the assumptions made in proving that  $p/y = E/R$  where  $R$  is the radius of curvature of the line of centers at the section considered.

5. The moment of inertia of an I-section with flange areas  $A$ , web thickness  $t$ , and depth  $d$  is  $\frac{1}{2}Ad^2 + \frac{1}{12}td^3$ . Taking  $t = \frac{1}{40}d$ ,  $A = td$ , and flange width  $= \frac{1}{40}$  span, design the beam of question 1, allowing a maximum stress of 5 tons.

6. How must the flange thickness in question 5 be reduced from the center to the ends so that the beam may be of uniform strength? Determine the value of  $R$  in this case and the deflection at the center of the span.

7. Distinguish between the strength of a beam and its

stiffness. Prove that for a uniformly loaded beam of constant depth and section the stiffness is  $\frac{5}{24} fl/Ed$ ,  $f$  being the maximum stress. Use this expression to find the stiffness in question 5.

8. The difference between the horizontal forces acting on two sections of a riveted I-section girder is balanced by the shearing force on the rivets between the sections. Hence show that the pitch  $p$  and the diameter  $d$  of the rivets are related by the equation

$$8fAp = \pi d^2 f_s l \quad (f_s \text{ being the shearing stress on the rivets}).$$

9. Find the size (by Rankine's formula) of a square wooden column 20' long with flat ends to carry a load of 20,000 lbs.  $a_1 = \frac{1}{3000}$ ;  $f_c = 7,200$ ; factor of safety to be 10.

10. Find the section (by Launhardt's formula) of a tension member, the fluctuation of load being from 20 to 10 tons.  $t = 48,000$ ;  $u = 30,000$ ; factor of safety to be 3.

11. A masonry dam is 30' high, 4' wide at the top and 10' at the bottom. Find the maximum and minimum pressures on the base ( $a$ ) when the depth of water is 25', and ( $b$ ) when the water is level with the top. The weight of a cubic foot of masonry is 150 lbs.

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**General Engineering, II.**—Third Year.

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*Graphical Statics.*

1. A ladder  $AB$ , Fig. I., weight 100 lbs., rests against a smooth wall and floor  $AC$  and  $BC$ , and is held in place by the string  $CD$ . Find the tension on the string and the pressures at  $A$  and  $B$ .

2. Two bars  $AB$  and  $AC$ , Fig. II., weighing 50 and 100 lbs. respectively, are fixed by smooth pins at  $A$ ,  $B$ , and  $C$ . Find the directions and magnitudes of the reactions at  $A$ ,  $B$ , and  $C$ .

3. The truss in Fig. III. spans 60' and has a rise of 15'. It is loaded with 10 tons at  $A$ . Determine the stresses in the members. The cross braces cannot resist compression.

4. The roof truss in Fig. IV. spans 64' and has a rise of 16'. The load on each rafter is 3.2 tons. Tabulate the stresses.

5. The roof truss in Fig. V. spans 60' with a rise of 15'. The load on each rafter is 20 lbs. per square foot of roof area. The distance between the trusses is 10'. The normal wind pressure is 20 lbs. per square foot. The truss is free at  $A$  and anchored at  $B$ . Draw the stress diagram and tabulate the stresses, (a) with the wind on  $AC$ , and (b) with the wind on  $BC$ .

6. The truss in Fig. VI. spans 80' with a rise of 10'. The bow is divided into eight equal parts and the bottom joints are midway between the top joints (measured hori-



zontally). The load on each top joint is 1.3 tons. Tabulate the stresses.

7. The Warren girder in Fig. VII. consists of equilateral triangles. The bottom joints are loaded with 1, 2, 3, 4 and 5 tons taken in order. Draw the stress diagram.

8. The deck beam whose section is given in Fig. VIII. is loaded at the center of a span of 10' with 5 tons. Find (a) the area of the section, (b) its center of gravity, (c) the moment of inertia of the section about an axis through its center of gravity perpendicular to the axis of symmetry, (d) the deflection at the centre of the span.  $E=29 \times 10^6$ .

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**General Engineering, III.**—Fourth Year.

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*Hydraulics.*

1. Prove that the pressure in a fluid at rest varies as the depth from the free surface. Find the total force acting on a dock gate 20' wide, the bottom of the gate being 30' below the water level.

2. From Bernouilli's theorem deduce Torricelli's equation for the free flow of water under a head  $h$ .

3. Explain how this equation is modified in practice. Given that the discharge through a 1'' orifice under a head of 4 feet is 3.2 cubic feet per minute, the diameter of the jet .79'', calculate the coefficients of discharge and velocity.

4. Calculate the discharge per second over a rectangular weir 5' wide if the head is 1' and the coefficient of discharge is .6.

5. Prove that in the standard short tube the loss of head is about one-half of the velocity head.

6. A 3'' pipe 800' long is fitted with a 1'' nozzle, and the head is 100'. If there are no losses except in the pipe determine the H.P. of the jet.  $f = .02$ .

7. A Venturi water-meter with a 1'' neck is fitted to a 3' main. The observed heads are 80' and a vacuum of 10'. If the coefficient of discharge is .97 find the daily delivery in gallons.

8. From the expression for the loss of head in a con-

duit  $2flv^2/gr$  deduce the equation  $v=c\sqrt{rs}$ , and find  $c$  if  $f=.02$ .

9. Prove that the H. P. of a Pelton water-wheel using  $W$  lbs. of water per second is  $u(v-u)(1-\cos \beta)W/550g$ , where  $\beta$  is the obliquity of the cups at exit, and  $u, v$  are the respective velocities of cups and jet.

10. Design an outward flow turbine of maximum efficiency to use 120 cubic feet of water per second under a head of 20', and to run at 100 R.P.M. The vanes are to be radial at entrance and the guide blades inclined at  $30^\circ$  to the circumference of the wheel.

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**Electrical Engineering, I.**—Third Year.

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1. From the assumption that in unit field there is one line of force per square centimeter, show that  $4\pi$  lines radiate from unit pole.

The strength of the magnetic field at a distance  $d$  centimeters from a straight wire carrying a current  $C$  is  $2C/d$ ; show that the magnetomotive force taken around the wire is  $4\pi C$ , and hence that the magnetomotive force of any coil of  $N$  turns is  $4\pi CN$ .

2. The sectional area of an iron ring is 5 square centimeters; the mean diameter of the ring is 30 centimeters. The ring is cut on one side, the width of the cut being .2 centimeter. If there are 1000 turns of wire on the ring, what current would be required to produce a magnetic flux of  $5 \times 10^4$ ?  $\mu=2000$ .

3. Define the absolute unit of E.M.F. What is the relation between the absolute unit and the practical unit? What is the meaning of effective E.M.F.?

Deduce an expression for the effective E.M.F. generated in a coil of  $N$  turns enclosing a area  $A$  and turning in a magnetic field of strength  $H$  at a speed of  $n$  R.P.M. about an axis at right angles to the lines of force.

4. Describe briefly how a uniform direct E.M.F. is generated.

A generator is multiple-wound with 520 conductors and runs at 300 R.P.M. The flux per pole is  $48 \times 10^5$ . Calculate the E.M.F. What alternating E.M.F. could be obtained from this generator?

5. Prove that the power delivered to a circuit at any instant is equal to the product of the current and E.M.F.

6. What power would be required to supply 1000 16-c.p. lamps at 110 volts? One pair of mains supply 200 of these lamps. What must the resistance of these mains be up to the point where the branches are taken off, if the drop in volts is not to exceed 1%?

7. Explain the action of a transformer, stating clearly the part performed by the iron. On what does the ratio of the primary and secondary E.M.F. depend?

The secondary of a transformer supplies 50 16-c.p. lamps at 110 volts. The E.M.F. on the primary is 2200 volts. Calculate the current in the primary assuming the efficiency of the transformer to be 96%.

8. What are the principal advantages and disadvantages of alternating current systems as compared with direct current systems? Why is an alternating system invariably adopted for long distance transmission?

9. Explain how the torque is produced in an electric motor.

10. Explain osmotic pressure, electrolytic dissociation, electrolytic solution pressure. How is electricity conveyed through a cell? What is the cause of the difference of potential between (a) a metal and one of its salts, and (b) two electrodes in solutions of different concentration? Hence explain why the voltage required to effect continuous electrolysis is different for different metals.

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**Electrical Engineering, II.**—Third Year.

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1. The wire of a Cardew voltmeter is  $\cdot0025''$  in diameter and  $13''$  long. Its specific resistance in C.G.S. units is  $9 \times 10^{-6}$  at  $0^{\circ}\text{C}$ . How many watts will it dissipate in heat on a 110 volt circuit if the temperature reaches  $160^{\circ}\text{C}$  and the increase of resistance is  $\cdot03\%$  per degree of increase in temperature.

2. A circular ring of uniform section is made up of iron and nickel with an air gap  $\cdot5$  centimeter wide. The length of the iron is 20 centimeters, of the nickel 3 centimeters. What ampere-turns would be required to produce a flux of 4000 lines per square centimeter?  $\mu = 3000$  for iron and 250 for nickel.

3. A Siemens dynamometer whose constant is  $\cdot8$  when used as a current meter, is used to measure power. A resistance of 50 ohms is put in series with the potential coil, the resistance of which is negligible. What will the constant be to give watts, and what will the reading be for 1000 watts?

4. A voltmeter whose range is 30 millivolts is to be used as a current meter with a range of 30 amperes. Determine the resistance of the required shunt, assuming that the current passing through the meter is very small. What will the error be in this case, the resistance of the meter being 1 ohm?

5. A circular disc, radius 5 centimeters, revolves in a narrow gap cut in a magnet at 600 R.P.M. One terminal of a voltmeter is connected by a sliding contact to the axis

of the disc, which is close to the magnet, and the other terminal is connected to a point on the periphery of the disc which is in the plane of the magnet's surface. If the voltmeter indicates 30 millivolts, what is the strength of the magnetic field in the gap?

6. The poles of an 8-pole generator are 9'' x 9'' with 400 turns of excitation on each. When excited the induction is 60,000 lines per square inch. If the circuit is broken in .02 second, what will be the mean value of the E.M.F. generated?

7. A simple harmonic current, whose strength is 5 amperes, and frequency 30, flows in one of two coils whose mutual inductance is 2 henrys. What will be the strength of the induced E.M.F. in the second coil?

8. An alternating E.M.F., frequency 60, strength 110 volts, is applied to a solenoid of 3000 turns, mean diameter 5 centimeters, length 50 centimeters, resistance 5 ohms. What current will flow?

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**Electrical Engineering, III.**—Fourth Year.

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1. Deduce an expression for the E.M.F. of a direct current generator, (a) when the armature is series-wound, and (b) when the armature is multiple-wound.

A generator with four poles has its armature multiple-wound with 504 conductors, and runs at 1200 R.P.M. The flux per pole is  $124 \times 10^4$ . Calculate the E.M.F. generated.

2. Enumerate the losses in a direct current generator. State the different methods of exciting the fields, pointing out the characteristic behavior of the generator in each case. Why is it necessary to increase the excitation with the load?

3. Given the magnetic characteristic of a shunt generator, show how to derive the external characteristic at constant speed assuming the armature reaction to be constant.

4. Deduce an expression for the torque exerted by the armature of a shunt motor in terms of armature current, speed, and E.M.F.

Give an expression for the speed in terms of the applied E.M.F., armature current and resistance. Is the shunt motor used in practice where a variable speed is required? Give reasons for your answer.

5. Under what conditions can a series motor be operated to advantage? Show by equations and diagrams how the torque and speed vary with the current.

6. Show by diagrams how two direct current generators must be connected to operate in multiple. If the genera-



tors are of different size and make, what conditions must be fulfilled to secure satisfactory operation? What procedure would you follow in connecting and disconnecting the second generator with the load?

7. Describe briefly the three-wire system of distribution, pointing out its advantages and disadvantages. Describe three methods employed to overcome the chief difficulty, illustrating by diagrams.

8. Describe the action of a Brush arc machine in giving a constant current.

9. Show how the dynamic action between two currents can be utilized to measure electric power.

10. Describe the actions which take place in an accumulator. Under what conditions can accumulators be used to advantage?

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**Electrical Engineering, IV.**—Fourth Year.

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*Alternating Currents.*

1. What is the physical meaning of effective E.M.F.? Prove the relation between the effective and the maximum in the case of a simple harmonic E.M.F.

2. Prove the rule for finding the resultant of two simple harmonic E.M.F.'s in one circuit but differing in phase.

Two E.M.F.'s one 40 and the other 30 volts differ in phase by  $30^\circ$ . What will the resultant be?

3. An E.M.F. of 2000 volts, frequency 60, is applied to a circuit with resistance 2 ohms and inductance  $4 \times 10^{-3}$  henry. Determine (a) the current, (b) the power delivered, and (c) the power lost in heating the circuit.

4. Classify the different forms of alternators. What are the most important features in an alternator compared with a direct current generator? How are alternators usually excited?

5. The form factor for a single conductor in a 14 pole 2 phase alternator is 1.13. The armature is mesh-wound with 4056 conductors distributed in 169 slots. The flux per pole is  $2 \times 10^6$ . What will the frequency and E.M.F. be at 340 R.P.M.?

6. Enumerate the sources of loss in a transformer. What limits the output? What is the phase relation between the primary and secondary E.M.F. at no load?

7. An E.M.F. of 2000 volts, frequency 60, is trans-

formed to 200 volts. There are 600 turns on the primary circuit. Determine (a) the number of turns on the secondary, (b) the maximum core flux. If the current in the primary with no load is .1 ampere, determine the inductance of the transformer, the resistance of the primary being negligible.

8. Explain a method of compensating for the loss of voltage in an alternator due to the resistance of the winding. Illustrate by diagrams.

9. Show how the power of an alternating current can be measured by the use of three ammeters, proving the validity of the method.

10. A dynamometer with an inductance of  $10^{-4}$  henry is to be used as a voltmeter at a frequency of 60. What non-inductive resistance must be connected in series with it to reduce the inductance error to .01%?

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**Mechanical Engineering, I.—Third Year.**

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*Machine Design.*

1. 30 H.P. is transmitted to a 20'' pulley placed on the center of a line shaft running at 150 R.P.M. The pulley is midway between two bearings 3' apart. The angle of contact between belt and pulley is  $190^\circ$ , and  $\mu = .3$ . Determine (a) the width of belt allowing a stress of 140 lbs. per inch of width, (b) the diameter of the shaft, stress 6000, (c) the length of the bearings on each side of the pulley, (d) the size of the arms (elliptical section) of the pulley close to the hub, assuming that there are six arms and the diameter of the hub is twice the diameter of the shaft. Stress for cast iron to be 2000.

2. Design a simple flanged coupling for the shaft of question 1.

3. Design a crane hook with an eye to receive a bolt and capable of lifting 10 tons. The inside diameter of the hook is to be 2.5 times the diameter of the neck; the section at the back of the hook, where the greatest stress is found, is a trapezoid, whose length (in the plane of the hook) is 2.5 times the diameter of the neck, and whose maximum width is 3 times the minimum width.

$$f_t = 8000; f_s = 6000.$$

4. The stroke of a high speed engine is 12'', diameter of cylinder 10'', length of connecting rod 30'', and it works with steam at 80 lbs. Determine (a) the diameter of the piston rod, (b) the diameter and length of crank pin, (c) the thickness of the cylinder.

5. Design a frame to carry the screw of a letter press, the frame to consist of two uprights 16'' apart and a bridge to carry the screw, the whole to be made in one casting. Make the section of the bridge a rectangle whose depth is twice the width. The pitch of the screw is  $\frac{1}{4}$ '' . It may be assumed that a force of 30 lbs. will be exerted on the screw at a radius of 10'' .

6. A joint is made in a 3'' rod by cottering the ends of each piece into a common sleeve. Design the joint.

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**Mechanical Engineering, II.**

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*Dynamics of Machines.*

1. Explain why a horizontal belt will work better than a vertical belt.

A 6'' single belt, thickness  $\frac{1}{4}$ '', runs on a 3' pulley at 300 R.P.M. Determine the H.P. it will transmit (a) neglecting centrifugal force, and (b) taking centrifugal force into account. The angle of embrace is  $180^\circ$  and  $\mu = .25$ . One cubic inch of leather weighs .032 lbs.

2. What would be the maximum diameter allowable for the flywheel of an engine to run at 300 R.P.M. if the stress in the wheel is not to exceed 2000 lbs.?

3. A marine engine indicating 1000 H.P. at 80 R.P.M. drives a ship at 12 miles per hour. The thrust block is a collar whose diameters are 10'' and 13''. Determine the total H.P. lost assuming the mechanical efficiency of the engine to be 90%.  $\mu = .1$ .

4. The weight of the winding on a 24'' dynamo armature is 120 lbs. The winding is evenly distributed around the armature. How many turns of phosphor-bronze wire would be required to keep the winding in place at 300 R.P.M.? The diameter of the wire is .035'' and will safely resist a stress of 12000 lbs.

5. The table of a planer receives its motion from a screw; the pitch is  $\frac{1}{2}$ '', mean diameter 3'', and the end pivot  $2\frac{3}{4}$ '. The weight of the table and work is 500 lbs. The distance between the axis of the screw and the sup-

ports of the table is 18''. What power would be required to drive the screw when the tool is cutting at the rate of 20 feet per minute under a pressure of 2000 lbs.?  $\mu = .08$ .

6. From the given indicator diagram obtain the diagram of twisting moment on the crank shaft, taking into account the acceleration of the reciprocating parts. The diameter of the cylinder is  $7\frac{1}{2}$ '', stroke 8'', speed 336 R.P.M., ratio of connecting rod to crank 5, weight of reciprocating parts 80 lbs. Assume simple harmonic motion to determine the accelerating force.

7. The side rod of a locomotive is 8' long, 5'' in depth and is connected at points 9'' from the center of 72'' driving wheels. The sectional area is 7 in.<sup>2</sup> and the principal moment of inertia of the section is 18 in.<sup>4</sup>. Determine the maximum stress in the rod when the engine is running at 60 miles per hour, and the steam is shut off.

8. A punching machine has a flywheel whose rim is 3'' x 3'' and mean diameter 2'. The flywheel shaft runs at 180 R.P.M. and is geared to a second shaft to which the punch is connected by means of a crank and eccentric, the speed of this shaft being 60 R.P.M. The material to be punched is  $\frac{1}{32}$ '' thick and the periphery of the punch is 32''. The punching is effected while the eccentric turns through an angle of 12°. The resistance to the punch may be taken to vary uniformly from 40,000 lbs. per square inch of area sheared to 0 at the end of punching. Determine the fluctuation in the speed of the flywheel. If the power is cut off how many punchings will the machine do before coming to rest, neglecting friction?

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**Mechanical Engineering, IV.**—Fourth Year.

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1. How is the heat of combustion in a furnace transferred to the mass of water in a boiler? Give the mode of transfer in each of the different stages.

2. What are the three most important conditions which must be fulfilled to secure the efficient utilization of the heat generated in a furnace? How is the efficiency of a furnace affected by (a) rapidity of combustion, (b) excess of air above that required for combustion, and (c) the size and position of the combustion chamber.

3. Classify the different types of boilers under two heads. On what does the division depend? Make a brief comparison of the merits of each class.

4. What are the advantages and disadvantages of the sectional principle in a boiler? Sketch a vertical section of a Babcock & Wilcox boiler set up. State the strong and weak features of this boiler.

5. What is the meaning of a boiler-horse-power? On test a boiler evaporated per hour 6,780 lbs. of water at 97° Fahr. to steam 98% dry at 350°. The coal consumption was 760 lbs. per hour, of which 7% was ash. Determine (a) the equivalent evaporation from and at 212° per lb. of coal and also per lb. of combustible, and (b) the H.P. L at 350° is 867 B.T.U.

6. On what does the rated capacity of a boiler principally depend? A fire-tube boiler is 68'' in diameter, 16' long and contains 84 3½'' tubes. Determine the H.P.



7. What appliances are used to introduce the water into a boiler? How are they operated? What are the advantages and disadvantages of each?

8. Distinguish between exhaust steam heaters and economizers. Explain why it is more economical to introduce an economizer than it is to extend the heating surface of the boiler.

9. Distinguish between plenum and induced draft systems. Compare the merits of the two systems. What are the advantages and disadvantages of the induced draft system compared with chimney draft?

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**Electrical Engineering, V.**—Fourth Year.

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*Design.*

1. Determine the following data for a 150 K.W. direct current generator with 8 square poles and series-wound to give 550 volts at 250 R.P.M.:

- (a) Diameter of armature.
- (b) Size of poles.
- (c) Number of commutator segments.
- (d) “ “ coils for the armature.
- (e) “ “ turns per coil.
- (f) Sectional area of armature conductors.

2. A transformer of 20 K.W. capacity is required to change 2200 volts, frequency 30, to 220 volts, the loss of power at full load not to exceed 2.5%. Determine (a) the number of turns for the primary, (b) the number of turns for the secondary, (c) the volume of iron. Thickness of laminations to be .05 cm., and maximum induction to be 5000.

3. 6000 ampere-turns are required on a  $5\frac{3}{4}$ " circular core,  $8\frac{1}{4}$ " long, the applied E.M.F. to be 110 volts. Determine the size of wire and number of turns. Allow 1500 amperes to the square inch.



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**Thermodynamics, I.**—Third Year.

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1. State your conception of the constitution of a gas from a dynamical point of view ; and hence give a physical interpretation to the laws of Boyle and Charles.

2. Atmospheric air at  $60^{\circ}$  Fahr. is taken into an air compressor, then compressed to 80 lbs. gauge pressure, then cooled to  $50^{\circ}$  Fahr., then expanded adiabatically to 18 lbs. absolute, then exhausted to the atmosphere. Determine the changes in its internal energy throughout the cycle. The index of the compression curve is 1.3.

3. The high pressure and low pressure cylinders of a compound air compressor are 9'' and 14'' respectively, and the stroke is 12''. Calculate (a) its capacity at 140 R.P.M., and (b) the power required to operate it, assuming the mechanical efficiency to be 80% and the final air pressure to be 80 lbs. by gauge. Assume the work to be equally distributed between the two cylinders, the receiver to be kept at a temperature of  $60^{\circ}$  Fahr., and the index of the compression curves to be 1.3.

4. A pound of water at  $50^{\circ}$  Fahr. is converted into steam 90% dry at  $338^{\circ}$  Fahr. Determine (a) the total heat supplied, and (b) the total increase of internal energy. What does the difference between the heat supplied and the increase of internal energy represent? Account for the energy represented by this heat in the case of the ordinary boiler and engine.

5. An engine takes in steam at  $320^{\circ}$  Fahr., dryness .96. The steam expands adiabatically to a pressure of 20.8 lbs. absolute, and is exhausted at 17 lbs. absolute. Calculate (a) the dryness of the steam at the end of the expansion, (b) the work done per lb. per cycle, (c) the

steam used per I.H.P.-hour, and (d) the thermal efficiency.

6. An engine takes in steam at 100 lbs. gauge pressure, cuts off  $\frac{1}{3}$  stroke and exhausts at 1 lb. gauge pressure. The diameter of the cylinder is 10'', piston rod  $1\frac{1}{2}$ '', and stroke 12''. Calculate (a) the I.H.P. at 300 R.P.M., and (b) the probable steam consumption per I.H.P.-hour, allowing 20% for cylinder condensation. Diagram factor .8.

7. An engine is controlled by an automatic governor. The angle of advance at normal speed is  $55^\circ$ , the valve travel 3'', the outside lap  $1\frac{1}{8}$ '', the inside lap  $\frac{3}{8}$ ''. (a) Sketch the indicator diagram for crank end of cylinder from the valve diagram. (b) The engine speeds up till the governor reduces the valve travel to  $2\frac{1}{2}$ '', while the angle of advance increases to  $68^\circ$ ; sketch the diagram under these conditions.  $\tan. 55^\circ = 1.43$ ;  $\tan. 68^\circ = 2.5$ .

8. In measuring the dryness of steam by means of a throttling calorimeter, the pressure at the entrance to the calorimeter was 90 lbs. After throttling the pressure was 20 lbs. and the temperature  $264^\circ$  Fahr. The pressures given are gauge pressures. Calculate the dryness of the steam.

9. An engine with a 12'' piston on a  $2\frac{1}{4}$ '' rod, 16'' stroke, works with steam at 90 lbs. gauge. On a one-hour brake test at 250 R.P.M. it consumed 2620 lbs. of steam, dryness .98. The brake was made of 1'' rope and acted tangentially on a 7' wheel. The nett pull on the rope was 480 lbs. The indicator diagrams for both ends of the cylinder were practically alike. The mean ordinates of several diagrams were as follows: 50, 72.5, 72.5, 56.2, 43.7, 35.0, 27.5, 23.7, 20.0, 15.0. Calculate (a) the I.H.P., (b) the B.H.P., (c) the actual quantity of dry steam used per I.H.P.-hour, (d) the steam used per I.H.P.-hour according to diagram, (e) the mechanical efficiency, (f) the thermal efficiency, assuming the feed water to be at  $100^\circ$  Fahr.

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**Thermodynamics, II.**—Fourth Year.

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1. At 299° Fahr. the rate of change of steam pressure with temperature is 1 lb. per square inch per degree. Calculate the volume of 1 lb. of steam at this temperature.  $L=904$ .

2. Describe a refrigerating system in which brine and ammonia are employed as working mediums.

3. Define entropy. What does the area enclosed by an entropy-temperature diagram represent? Sketch a typical diagram for an ordinary engine without jackets.

4. Derive the adiabatic equation for steam by considering the change of entropy.

5. Give a summary of the sources of loss in the actual engine. Why is the expansion of steam never completed in an engine?

6. What are the advantages of multiple expansion? What is the influence of (a) size and (b) speed on the thermal efficiency of an engine?

7. What is superheated steam? How and why does its use affect the thermal efficiency of an engine?

8. Distinguish between a Woolf and a receiver engine. Show that in a receiver engine with cranks at right angles and no "drop" into the receiver the cut off  $x$  in the low pressure cylinder is

$$x = \frac{1+2R}{2(RL+1)} \text{ (very nearly)}$$

where  $R$  is the volume-ratio of the receiver to the high pressure cylinder, and  $L$  the volume-ratio of the low pressure cylinder to the high pressure cylinder.

9. Show that in the case of an engine using steam without compression the maximum work obtainable from one pound of steam is

$$W = h_1 - h_2 - \tau_2 \log_{\epsilon} \frac{\tau_1}{\tau_2} + \frac{q_1 L_1 (\tau_1 - \tau_2)}{\tau_2}$$

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**Descriptive Geometry.**—Second Year.

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1. The plan and elevation of a line make angles  $30^\circ$  and  $45^\circ$  respectively with  $x y$ . Find the inclination of the line to each plane of projection.

2. Take any plane not perpendicular to either plane of projection and find the projections of the point in this plane which is  $\frac{1}{2}''$  from the vertical plane and  $1''$  from the horizontal.

3. The horizontal and vertical traces of a plane make angles  $45^\circ$  and  $30^\circ$  respectively with  $x y$ . Take any line not in the plane and find the point of intersection of line and plane.

4. Find the inclination to each plane of projection of the plane in problem 3.

5. The horizontal and vertical traces of a plane make angles  $60^\circ$  and  $30^\circ$  respectively with  $x y$ . Take any point not in the plane and find the distance from the point to the plane.

Find the traces of a plane parallel to the given plane and containing the chosen point.

6. Draw the plan of a regular hexagon,  $1\frac{1}{4}''$  side, with its plane inclined at  $45^\circ$  and one side at  $30^\circ$  to the horizontal.

7. A regular pyramid whose axis is  $2''$  in length is constructed on the hexagon of problem 6. Draw the plan, also the elevation on a plane which is parallel to the highest side of the hexagon.



8. The axis of a right cone is inclined at  $30^\circ$  to the horizontal, the plan of the axis being inclined at  $45^\circ$  to  $xy$ . The elevation of the vertex of the cone is  $2\frac{1}{2}''$  and the vertex angle is  $30^\circ$ . The plan of the vertex is  $\frac{1}{2}''$  from  $xy$ . Determine the traces of a plane which shall be tangent to the cone and contain a point whose elevation is  $1\frac{1}{2}''$  and plan  $1''$  from  $xy$  in a line which is  $1''$  from the projection of the vertex.

9. A vertical plane cuts the cone of problem 8, bisecting the plan of the axis at right angles. Draw the elevation of the section.

10. Two roofs begin from the same level ; one is inclined at  $45^\circ$  to the horizontal and spans  $40'$  and the other is inclined at  $30^\circ$  and spans  $30'$ . The latter runs into the former at an angle of  $60^\circ$ . Draw the plan, also an elevation on a plane parallel to the former.

*Queen's University Examinations: April, 1902.*

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**Drawing, I.**

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(The work to be done in pencil only. All construction lines must be left. Marks will be awarded for neatness of drawing.)

*Descriptive Geometry and Projection.*

1. An octagonal pyramid of 1'' edge of base and 3'' axis rests on the horizontal plane on one corner of base, the axis being inclined at  $60^\circ$  to both planes of projection. Give plan and elevation.

2. Give plan and elevation of a regular tetrahedron of  $1\frac{1}{4}$ '' edge, resting on one triangular face on a plane which forms an angle of  $45^\circ$  with the horizontal plane of projection, one edge of base of tetrahedron forms an angle of  $45^\circ$  with the vertical plane of projection.

2. The vertical and horizontal traces of a plane form angles of  $30^\circ$  and  $45^\circ$  respectively with the intersection line. Give the plan and elevation of a cube of  $1\frac{1}{2}$ '' edge resting on this plane, when one edge of the base of the cube is parallel to the horizontal trace and one inch from it.

*Perspective.*

Height 6', Distance 16', Scale  $\frac{1}{48}$ .

1. The centre of the base of a square pyramid of 9' axis is 4' to right and 4' in. The edges of base on the ground plane are 6' long and two of them are parallel to the picture plane; it penetrates centrally a square slab 1' thick which rests horizontally 2' from the ground, one rectangular face of which is in the picture plane. Give perspective view.

2. A hexagonal plinth of 4' edge and 2' thick rests (on one of its rectangular faces) on a square slab of 6' edge

and 1' thick ; one edge of the hexagonal plinth touches the picture plane 5' to left, it rests centrally on the square slab, the hexagonal faces are perpendicular to the picture plane and parallel to the edges of the slab.

3. A circular plinth 7' in diameter and 2' thick touches the picture plane directly in front of the spectator ; placed centrally on it is a sphere 7' diameter. Give perspective view.

### *Mechanical Construction.*

(Question No. 1 must be answered, and any two questions in No. 2 to constitute a full paper.)

1. Make a drawing full size of a  $\frac{3}{4}$ " bolt 3" long with hexagonal head ; washer and hexagonal nut ; all must be of correct dimensions.

2. (a) Make a sketch of an eccentric, showing the essential points of its construction, stating what is meant by the "throw."

(b) Sketch some form of slipper slide, slide block, or cross-head, showing its connections and stating its use.

(c) Make drawings in plan and elevation of any form of simple bearing ; stating metals used in its construction.

(d) What is a common form of stop valve. Give sectional elevation to show construction.

(e) Show a simple form of slide valve in plan, elevation, and horizontal section, showing steam and exhaust ports.

(f) Make a sketch of a cylinder head in end elevation, and vertical section showing piston rod, glands, and stuffing box.

(g) Show the form of a footstep bearing in plan, elevation, and vertical section, showing metals used in its construction.

(h) Show the form of a connecting rod end, with method of securing strap and bearings.

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**Drawing, II.**

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*Perspective.*

(The work to be executed in pencil only, and all construction lines must be left.)

Height 6', Distance 16', Scale  $\frac{1}{48}$ .

1. A square prism of 4' edge and 8' axis lies on the ground plane, the long edges vanishing to right at  $45^\circ$ , the nearest corner being directly in front of spectator and 5' in. A similar prism rests on it centrally, and on the ground plane, so that the under face forms an angle of  $45^\circ$  with the ground, the edges being perpendicular to those of the lower prism. Give perspective view.

2. A square prism 12'x3'x3' rests against a vertical plane so that the long edges vanish to the left at  $45^\circ$  and upwards at  $60^\circ$ , the short edges vanishing to the right; the nearest corner on the ground is 3' to left and 4' in. Give perspective view (showing the vertical plane).

3. The plan of a building is in the form of a Greek cross, the axes of which are 30' and vanish to left and right at  $30^\circ$  and  $60^\circ$  respectively; the height to the eaves is 15', to the ridge 20'; a door 7'x4' is placed in centre of each gable, and a window 6'x4' in the centre of each side 4' from the ground; a chimney is placed in the centre which projects 6' above the ridge, is 3' square, the sides being parallel to the gable ends; the nearest corner on the ground is 3' to *R* and 8' in. Give perspective view.

### *Mechanical Construction.*

1. Make a drawing full size showing four teeth of a wheel of thirty-six teeth 1'' pitch, geared with a pinion of ten teeth (same pitch) using the cycloid curves for the formation of the teeth and correct dimensions.

2. Two shafts are placed 2' apart. It is required that one shall make three revolutions while the other makes eight. Show what must be the diameter of the pitch circles of a pair of geared wheels so that this may be done. Scale  $\frac{1}{8}$ .

3. Make a sketch showing the connection between piston and crank in a horizontal engine; also show how the steam enters the cylinder from the steam chest, and the means used to regulate it.

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**Surveying**—First Year.

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1. On testing surveyor's compass it is found that greatest reading is  $183^{\circ}30'$ , and when reversed reading on same side of needle is  $176^{\circ}$ . How will corrections be determined and applied? Determine between bearing and azimuth, giving examples.

2. Show the effect of curvature and refraction and determine its value. When and how is it applied? Prove by what method in levelling its effect could be eliminated.

3. When bubble tube on transit plate is out of adjustment describe and prove fully the method of adjustment. Is the telescope bubble adjusted in the same manner? If not, why?

4. Compile a level book for set of levels taken from Sta. 0+00 to Sta. 15+00, having at least three T.Ps. State the principles of direct levelling.

5. What steps would be taken in a resurvey of a farm *ABCDEF* with compass when (a) corners *A* and *B* could be found, (b) only corner *D* could be found but Mag. Decl. of original survey known, (c) only corners *A* and *E* could be found.

6. The horizontal distance between *X* and *Y* is 1800 ft. and *Y* is 150 ft. above *X*. Slant distance recorded at  $90^{\circ}$  F. is 1816.452 ft. At what temperature is the chain standard? Coefficient of steel is .0000065.

7. Define height of instrument, plus sight, minus sight, and datum. Give in detail the method of adjusting the dumpy level.

8. Describe minutely each step taken in the method of back angle traversing. If transit were out of adjustment what method would you adopt and why?

9. Explain clearly and classify different methods of fixing a point, and what instruments you would require in each. Give complete method of measuring width of a river from one side only and with the chain alone.

10. What are the principles involved in a chain survey and how is the work checked? Accompany answer with notes taken on a line  $XY$  containing different methods employed in fixing detail having at least 15 entries and 8 conventional signs.

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**Surveying.**—Second Year.

1. Balance following traverse in tabular form, filling in bearings, double longitudes, and coördinates:

<i>Course.</i>	<i>Azimuth.</i>	<i>Distance.</i>	<i>Lat. Diff.</i>	<i>Long. Diff.</i>
<i>AB</i>	0°0'	2050·15	2050·15	0·00
<i>BC</i>	322°13'	618·90	489·22	—379·25
<i>CD</i>	201°6'30''	1387·00	—1293·93	—499·50
<i>DE</i>	155°21'	923·50	—839·33	385·17
<i>EA</i>	139°21'	639·00	—405·16	494·13

2. Derive the Prismoidal Formula for calculating volumes and determine the difference between the results obtained by it and by "average end" and "mean areas." Upon what work is it specially adapted and how used?

3. Describe the continuous method of recording angles in a simple triangulation and how the base is measured. Upon what does the accuracy depend, and what forms a check on the work?

4. From area *ABCDE* cut off area *X* by line *FG* having a given azimuth of  $\alpha^\circ$ , determining the points *F* and *G*.

5. Two tangents intersect at an angle of  $81^\circ$ . (a) What is the degree of curve connecting them if P.C. is at 100 + 24 and P.T. at 113 + 74? (b) If second tangent is moved to a parallel position 100 ft. distant how much must this curve be backed up? (c) Determine tangential angle and the tangential distance.

6. In a traverse *ABC*, *AB*=500 ft., *BC*=800 ft.



Azimuth of  $AB=60^\circ$ , azimuth of  $BC=100^\circ$ . Angles taken at a sounding  $P$  are  $APB=40^\circ$  and  $BPC=55^\circ$ . Determine expression giving value of angle  $BAP$ . How could  $P$  be plotted geometrically?

7. Explain clearly what is meant by contouring and describe a method of contouring a small area. How would the profile along a line  $AB$  across this area be compiled? Illustrate answer by figures.

8. Deduce formula for obtaining differences of elevation with inclined readings with the stadia. How could a diagram of corrections be compiled?

9. If angle of elevation read from  $A$  to  $B$  is  $\alpha^\circ$  and distance  $K$  is greater than 5 miles, what is the true difference of elevation between  $A$  and  $B$ ?

10. How are surface and underground surveys of a mine connected by one deep shaft? How would you determine azimuth and angle of inclination of a tunnel to tap an existing shaft?

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**Surveying, III.**

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(NOTE.—Pass marks required in each section to qualify.)

*Section I.—Dominion Land Surveying.*

1. Upon what lines is the survey of Dominion lands based? Give position, direction, and to what use each is adopted.

2. When an initial meridian intersects the jog how is the C.L. run, and how are quarter-sections adjoining C.L. laid out?

3. Give dimensions of townships, direction of section lines, allowances for roads, and distribution of discrepancies under different systems of survey.

4. If a meridian intersects a lake 50 miles area what course would the township outliner pursue, and what posts would he plant? Illustrate answer. When error in E. & W. line is 45 links how is true line posted and opened out?

5. Show marking of posts for (1) cor. bet. Sect. 9, 10, 15, 16, Tp. 32, Rg. 2, (2) cor. bet. Tps. 22 & 23, Rgs. 5 & 6, (3) S.E. cor. Tp. 8, Rg. 33, (4) cor. bet. Sects. 18 & 19, Tp. 7, Rg. 20 on Ind. Res. Bdy. Also show by figures giving dimensions, &c., how above corners are posted, (3) being on prairie.

6. What constitute the boundaries of block containing Tp. 21, Rg. 7, surveyed under Third System. In what order are said boundaries surveyed and why? If any exception to this rule occurs, state where, and method adopted in such case.

## *Section II.—Railway Surveys.*

7. State organization of preliminary survey party and give in detail duties of transit party.

8. Two tangents intersect at  $\beta^\circ$  and external distance of curve is 20 feet, determine (1) position of P.C., (2) long chord, (3) length of curve, (4) middle ordinate, (5) degree of curve.

9. Describe one method of obtaining and recording topography on preliminary line. What are its advantages and how should it be used?

10. Two tangents intersecting at  $\theta^\circ$  have P.C. and P.T. fixed and it is required to connect these with a compound curve of radii  $R$ . and  $r$ . Solve trigonometrically for means of fixing P.C.C.

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**Practical Surveying.**—Fourth Year.

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(NOTE.—Solutions of 5—(a) (b) and (c)—must be given.)

1. What are governing points? Give examples. What considerations fix their position, and in what way do they effect the choice of route?

2. What is the difference between a Reconnaissance, Preliminary Survey and Location? State briefly how the location is decided upon, placed on paper and transferred to the ground. Would you consider this final?

3. It is required to connect two grades,  $AB + 1.00$  per 100 and  $BC - .6$  per 100 by a vertical curve.  $AB = BC = 250$  ft. If elevation of A is 118.6 give elevations of 50 ft. stations from A to C. Chainage of A = 46 + 70. Compile above in level book form.

4. What are the duties of the Chief Engineer and what part of the survey should he personally perform, and why? Discuss the advantages and disadvantages of valley routes, and routes across undulating country with water courses.

5. From data given on accompanying sketch determine (a) assuming curve AB to be staked out from B but invisible from A, and trial tangent  $AB = 580$  ft. Angle between AB and tangent at A =  $22^{\circ}39'$  and  $R = 716.2$  ft. Determine angle CAB, and distance AC. If bearing of AC = N  $29^{\circ}12'$  E, what will be chainage of P.T., i.e. D?

(b) What is radius of curve connecting tangents  $DE = 818$  ft., and  $EG = 915$  ft., angle of intersection =  $46^{\circ}36'$  and which will pass through F (100 ft. from E and 50 ft.

perpendicularly from EG). What will be the chainage of P.C. and P.T., and bearing of DE and EG?

(c) The compound curve GHK composed of  $5^\circ$  curve GH=912 ft. and  $8^\circ$  curve HK=591.25 ft. has tangent KL, the bearing of which is N  $22^\circ 54'$  E. It is decided to shift tangent to position ZY parallel to KL and 62 ft. perpendicularly from it. Find new position of P.C.C. and give chainage of P.C., new P.C.C., and new P.T.

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**Algebra**—First Year.

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1. Prove that  $(a+b+c)(b+c-a)(c+a-b)(a+b-c) \equiv 2 \Sigma b^2 c^2 - \Sigma a^4 = 16 s(s-a)(s-b)(s-c)$  where  $2s = a+b+c$ .

2. Find the H.C.F. of

$$6x^3 - x^2 - 2x - 15 \text{ and } 2x^3 + x^2 - 8x + 3.$$

3. The square of the quantity of water delivered by a pipe varies as the fifth power of its diameter. If a 1 foot pipe delivers 500 gallons a second how much will a 4 feet pipe deliver in the same time?

4. Extract the square root of  $30 + 10\sqrt{5}$ .

5. Draw the graph of  $24 + 2x - x^2$  and find for what values of  $x$  it is (1) zero, (2) a maximum.

6. Sum the series (1)  $1 + 4 + 7 + \dots$

$$(2) 1 + 4 + 16 + \dots$$

$$(3) 1 + 4 + 9 + \dots$$

each to  $n$  terms.

7. Prove that the number of permutations of  $n$  different things  $r$  at a time is  $\frac{n!}{(n-r)!}$

8. Find the coefficient of  $x^4$  in the expansion of  $\sqrt{1 - 2x - x^2}$ .

9. Put into partial fractions  $\frac{5x^2 + 6x + 7}{(x+1)(x+2)(x+3)}$ .

10. Find the first 4 convergents to  $\frac{.9856}{13.1690}$ .



FACULTY OF PRACTICAL SCIENCE.

**Trigonometry, I.**

1. (a) What is a radian, and what relation does it hold to a degree?

(b)  $A$  and  $B$  are on the same meridian, and are 77.3 miles apart. The lat. of  $A$  is  $44^{\circ} 13' 21''$  and of  $B$   $45^{\circ} 20' 10''$ . Hence find the earth's diameter.

2. (a) Name the trigonometric functions, and explain them by means of a fundamental triangle.

(b) If  $\sin \theta = \frac{2}{3}$  find the value of  $\frac{\tan \theta + \cos \theta - \cot \theta}{\sin \theta}$ .

3. Prove the theorem (a)  $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$ .

(b)  $\sin A : \sin B = a : b$ .

4. A post 12 feet long leans to the north at an angle of  $20^{\circ}$ . Find the length of its shadow on level ground, at noon, the sun's altitude being  $47^{\circ} 50'$ .

5. Prove the theorem (i)  $\triangle = \sqrt{s(s-a)(s-b)(s-c)}$ .

(ii)  $R = \frac{abc}{4\triangle}$ .

6. A rope 20 feet long is fastened to horizontal supports 16 feet apart, and a weight of 120 pounds is suspended from the middle of the rope. Find the tension of the rope.

7. Assuming the addition theorem, prove the following :

(a)  $\sin A + \sin B = 2 \sin \frac{1}{2}(A+B) \cos \frac{1}{2}(A-B)$ .

(b) the corresponding theorem for  $\cos A + \cos B$ .

(c)  $\tan \frac{1}{2}(A-B) = \frac{a-b}{a+b} \cot \frac{1}{2}C$ .

8. Prove  $2 \tan^{-1} \frac{1}{5} + 2 \tan^{-1} \frac{1}{8} + \tan^{-1} \frac{1}{7} = \frac{\pi}{4}$





FACULTY OF PRACTICAL SCIENCE.

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**Geometry.**—First Year.

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1. (a) If a line meets two parallel lines the alternate angles are equal. (b) Prove that the angle between the diagonals of a rhombus is a right angle.

2. (a) The square on the hypotenuse of a right angled triangle is equal to the sum of the squares on the sides. (b) Hence show how to find  $\sqrt{21}$  graphically.

3. (a) The angle at the circle is one-half the corresponding angle at the centre. (b) If the chord is 3 inches long and the angle at the circle  $60^\circ$  find the radius.

4. The bisectors of the vertical angle of a triangle divide the base in the ratio of the sides.

5. Prove the formula for the distance from any line of the centre of mean position of a number of points for given multiples.

6. Show how to draw the normal to a plane from an external point.

7. Find the number of faces, corners, and edges of the regular solid whose faces are pentagons.

8. Prove that the volume of a frustum of a cone of altitude  $h$ , the end faces having radii  $r$  and  $r'$  is  $\frac{1}{3}\pi h(r^2 + rr' + r'^2)$ .

9. (a) Apply the prismoidal formula to prove that the volume of a zone of a sphere of the same dimensions as the frustum of (8) is  $\frac{1}{8}\pi h(3r^2 + 3r'^2 + h^2)$ . (b) When  $h$

is very small prove that the zone and frustum are equal, and explain the reason of this result.

10. Use Guldin's Theorem to prove that the centre of gravity of a wire in the form of a semi-circle of radius  $r$  is distant  $\frac{2r}{\pi}$  from the centre along the radius which bisects the arc.

FACULTY OF PRACTICAL SCIENCE.

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**Spherical Trigonometry.**

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1. (a) What is a spherical triangle, and what are its parts?

(b) What is the polar triangle, and what relations exist between the parts of a triangle and those of its polar?

2. Given  $\tan \frac{1}{2}(A+B) = \frac{\cos \frac{1}{2}(a-b)}{\cos \frac{1}{2}(a+b)} \cot \frac{1}{2}C$ , find the corresponding polar formula.

3. (a) Prove the fundamental theorem

$$\cos a = \cos b \cos c + \sin b \sin c \cos A.$$

(b) Given the three sides of a spherical triangle, transform the preceding formula so as to calculate one of the angles by logarithms.

4. The pole-star comes to the upper meridian at 3 o'clock in the morning, and you observe it at 8 o'clock in the evening to get your meridian. Show how you would proceed to find the azimuth of your instrument, the polar distance of the star and the latitude of the place being given.

5. At latitude  $44^{\circ}13'N$  and longitude  $76^{\circ}38'W$  you start due east and proceed to run what is called a "straight line" on the earth's surface. Trace briefly the course of this line, supposing the whole surface of the earth was such as to be traversed.



FACULTY OF PRACTICAL SCIENCE.

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**Descriptive Astronomy.**

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1. Define declination and right ascension of a star, and give any two causes for variation in these.

2. (a) Give a brief sketch of the way in which we find the moon's distance from the earth.

(b) The moon's distance being  $60r$ , where  $r =$  the earth's radius, and her apparent diameter being  $31'.6$ , find her diameter in radii of the earth.

3. Describe as fully as you can the motions and telescopic appearances of Venus.

4. (a) State Kepler's laws concerning the planetary orbits.

(b) Show how the eccentricity of the earth's orbit affects the apparent motion of the sun, and hence the equation of time.

(c) What other principal cause affects the equation?

5. Describe the phenomena known as (a) the nutation, (b) the moon's libration, (c) the moon's annular equation.

6. Describe a total solar eclipse (a) as it would appear if seen from the moon, (b) as it appears as seen from the earth.



FACULTY OF PRACTICAL SCIENCE.

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**Physics, I.**

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1. Name and describe the units of length, time, force, energy, pressure.

2. "The masses of bodies are proportional to their weights at the same place." Explain what is meant by this statement and how it can be verified experimentally.

3. State the law of gravitation.

If the mass of the moon is  $\frac{1}{80}$  of the mass of the earth, and its radius is 0.27 times the radius of the earth, what would be the weight of one pound at the surface of the moon? [ $g=32$ .]

4. A specific gravity flask full of water weighs 57.23 grs. After 25.71 grs. of sand have been put in, the weight is 73.08 grs. Find the density of sand.

5. State the principles of Conservation of Momentum and Conservation of Energy.

A bullet of mass 12 gr. is fired from a gun of mass 21 kgr. with a velocity of  $4.12 \times 10^4$  tachs, find (1) the velocity of recoil of the gun, (2) the kinetic energy of the gun, (3) the kinetic energy of the bullet.

6. Distinguish between force and impulse.

A ball of mass 420 gr. falls from a height of 40 m., find its velocity upon reaching the ground. If it bounces to a height of 2.5 m. find the impulse and the heat developed by the blow. [ $g=980$ .]

7. Assuming that in simple harmonic motion the acce-



leration is  $(2\pi/T)^2x$ , prove that the motion of a pendulum bob is simple harmonic and find its period.

8. In speaking of a wave what is by *period*, *velocity*, *wave-length* and what is the relation between these three quantities?

Describe any method of finding the velocity of sound waves in air.

9. State the laws which give the relation between (a) the pressure and volume of a gas at any temperature, (b) the volume and temperature of a gas at constant pressure.

Write a formula which represents both these laws.

10. A quantity of gas has a certain volume at  $0^\circ\text{C}$  and 76 cm., what will its pressure be when it has the same volume at  $100^\circ\text{C}$ .

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# THEOLOGY.

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For Papers in

Junior Hebrew,  
Senior Hebrew,

See Arts Pass Papers.

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**Divinity.**

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1. Give the main divisions of Christian theology.
2. Compare the religious and scientific conceptions of man.
3. Show the connection between theism and belief in immortality.
4. State and discuss the ethical arguments for immortality.
5. Sketch briefly the Christian theory of sin.
6. Discuss the Biblical terms, Hebrew and Greek, for sin.
7. What is St. Paul's doctrine of Original Sin ?
8. Examine Ritschl's idea of a Kingdom of Sin.
9. How do the Biblical writers view the fact of death ?



**Apologetics.**

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FIRST PAPER.

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1. What is the central point of the attack on the Christian faith at the present time? Give a brief outline of the steps you would take in defending it.

2. Discuss the claim that Reason is the source of Authority in religion.

3. How is it attempted to establish the conclusion that the disciples' vision of the risen Lord was an optical illusion? Discuss the argument.

4. Paul declares that he had visions and revelations of the Lord, and the alleged appearances of the risen Jesus must have been one of these visions. Examine this statement.

5. Criticise the statements (1) God is love and dispenses with propitiation, (2) it is unjust and immoral that one who was innocent should suffer for the guilty.

6. Is belief in the miracles of the Gospels necessary to a rational faith in Jesus Christ?

7. What support does the fact of Christ's sinlessness give to the reasonableness of the doctrine of the Incarnation?

8. "The rational character of the universe strengthens faith in immortality." Explain how it does so.



**Apologetics.**

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SECOND PAPER.

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1. Describe the aim of the Philosophy of Religion.
2. If it be admitted that the great teachers of heathendom were inspired, show that the Christian belief that the Old and New Testament Scriptures are the product of inspired men, and contain authoritative teaching, is not affected.
3. According to M. Comte what were the successive stages in the evolution of religion? Show that what he regards as the first stage is not in accordance with the facts.
4. What are the objections to the view that Jesus claimed to be the Christ on the ground of expediency?
5. Show that from an ethical point of view the assertion of a claim to dignity is not incompatible with the humility of Christ.
6. What was Christ's contribution to the solution of the problem, "Why do the righteous suffer?"
7. Contrast the teaching of Brahmanism and Christianity with reference to (1) salvation, (2) future rewards and penalties.





**The Study of the Hexateuch.**

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1. State briefly what is meant by the "Documentary Theory" of the composition of the Hexateuch.

2. What do you regard as the causes which led to the development of this theory.

3. Indicate briefly the different stages in a comprehensive review of the history of this movement.

4. Show how this view of different documents in the Hexateuch throws light on the origin and character of other parts of the Old Testament.

5. Explain what is meant by "duplicate narratives."

6. What was the nature and influence of the "fragment hypothesis"?

7. State the character of the work done by any two of the following scholars:—Astruc, Eichhorn, Hupfeld, Ewald, Vatke, Graf.

8. What was the influence of the "Complementary Hypothesis" on the question of dates?

9. Name one of the documents and mention its distinctive features.



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**Hebrew Exegesis.**

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**JOEL.**

1. Translate with explanatory notes I. 1-7, II. 22-25.
2. Discuss briefly (1) the date of the book, (2) its doctrine of **יום יהוה**.
3. Translate IV. 18-21 inclusive.

4. "Apocalypse must always paralyse the missionary energies of religion." "So far from blaming the absence of special ethics in Joel's sermons, we accept it as natural and proper to the occasion." Criticise or justify these statements.

**JONAH.**

1. Compare the two books as to their spirit, style, and purpose.
2. Give your own view as to the nature and purpose of this book.
3. Translate, noting any peculiar expressions, I. 4-6 ; II. 1-3 ; III. 9-10 ; IV. 9-11.



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**Honour O.T. Criticism.**

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**DANIEL.**

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1. Discuss (1) the bi-lingual character of this book,  
(2) its place in Hebrew literature and theology.
2. Summarize the arguments against the exilic date.
3. Translate Dan. II. 6-8.
4. Translate with explanatory notes Dan. II. 4-6,  
II. 20-21.
5. Parse each word in Dan. II. 24.
6. Translate into Hebrew forms :

(1) וּמַהֲקִים מַלְכִּין יֵהֶב חֲכֻמָּתָא לְחַכְיִמִּין

(2) חוּא צִלְמָא רָאִישָׁה דִּי־דָהֶב טָב

(3) מָה לְהוּה בְּאַחֲרִית יוֹמִיא

(4) אֱלוֹי חַר אֲדִין אֲנָה אֲנָתָה

7. Translate into Aramaic forms :

הַמֶּלֶךְ הַמְּלָכִים הַדְּבָרִים

קִיִּין כְּסָף קָטַל הַקְטִיל

נָתַן לִי אֱלֹהִים הַגְּבוּרָה



HONOURS.

**O.T. Criticism.**

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THE HISTORY OF THE RELIGION OF ISRAEL.

(Six questions may be attempted.)

1. Translate section 21 of Marti's *Geschichte der Israelitischen Religion* (page 76).

2. Translate and explain the statement, "Moses Ruhm wird dadurch nicht geringer, dass wir ihm selber die Gesetzgebung absprechen müssen, die spätere Jahrhunderte ihm zuschreiben," &c. (page 73).

3. Write a brief note on *Die Religionsmengerei in der Richterzeit*.

4. Discuss this statement:—"Erst die neusten Pentateuchstudien machten eine ganz neue Behandlung der alttestamentliche Theologie zum Bedürfnis."

5. Criticise or justify the term "Old Testament Theology."

6. State clearly what you mean by "the historical method," as applied to this subject. Give an illustration of its application.

7. Discuss the advantage and disadvantage of Marti's plan. Compare it with any others that you know.

8. Explain the terms polydaimonism, monolatry, ethical monotheism, theological monotheism.





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HONOURS.

**O.T. Criticism.**

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THE COMPOSITION OF THE HEXATEUCH.

1. "Oriental history is compilation, in which the several parts retain their individuality. There is less desire for smoothness and unbroken connection than for the inclusion of all matters bearing on the subject in hand." Illustrate this statement.

2. What does Gunkel mean by "one-sided literary criticism?" Explain clearly, using as your example Genesis 1. Can his position be correctly called "reaction?"

$$3. \quad \frac{(J+E)+D+(P^1+P^2+P^3)}{R^{je} \quad R^d \quad R}$$

Explain each sign, and the process represented by the whole symbol.

4. State briefly the character and position of Deuteronomy.

5. What was Graf's first position as to the Priestly code? Explain what is meant by the statement that he was allowing himself to be fettered by bonds that literary criticism had already loosed.

6. Compare as to contents and style JE and P.

7. Examine the structure of the Flood story.

8. State briefly your view of the relation of critical studies to the work of the preacher.



**N.T. Criticism and Exegesis.**

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1. What grounds are there for rejecting the hypothesis that the Synoptic Gospels had their source in oral tradition?

2. What are the main sources of the first and third Gospels respectively?

3. State reasons for believing that Mark's Gospel is the earliest.

4. Mention the different stages in the public ministry of Jesus as recorded by Mark, and the characteristic of each stage.

5. State the main divisions of the first Gospel.

6. What passage in Luke contains the great digression from the order of Mark?

7. Mention the essential differences between the Logos of the fourth Gospel and that of Philo.

8. Translate carefully Luke 1: 4, and parse *παρέδωσαν, γεινόμενοι, πᾶσιν, γράφαι, κράτιστε*.

9. Translate and interpret:—(1) Matt. 3: 15; (2) Matt. 16: 19; (3) Luke 5: 36-39; (4) Luke 16: 9; (5) Luke 16: 29.

10. What is the special lesson of Matt. 20: 16?

11. Why have the Revisers omitted *δευτερωπρώτω* from Luke 6: 1? Explain how that reading probably arose.

12. Give an account of the origin of the Latin Vulgate. What estimate is placed upon it by the R.C. Church?



HONOURS.

**O.T. Exegesis.**

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JOEL.

1. Discuss the teaching of this book from the standpoint of (1) literary style, (2) ethical teaching, (3) the missionary idea.

2. Translate carefully with brief exegetical notes IV., 13-21 inclusive.

3. Discuss the originality of IV., 18, 19.

4. Compare carefully the presentation of the ' יום with that of one other prophet.

5. What are the main lines of difference as to the general interpretation of the book?

6. What is your own view of the date? Picture the circumstances of the Jewish Church at that time.

7. Explain the two passages II., 15, and 23.

8. Translate I., 2-5.



**Church History.**

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1. Write a brief life of Origen, naming his chief works.
2. What are our chief authorities for a knowledge of Hippolytus?
3. Discuss the relations of Philip the Arabian to Christianity.
4. What schisms were connected with the names of Novatian, Nepos, and Felicissimus?
5. State what you know of Paul of Samosata and his heresy.
6. Name and comment on Gibbon's Five Causes of the growth of Christianity.
7. Give some account of the early British Church.
8. Describe the First Edict of Diocletian.
9. Sketch briefly Cyprian's theory of the Episcopate.
10. Discuss the usage of the following :  
*φιλοσοφία, σφραγίς, πάπας, στρωματεῖς, τὰ κοινωνικά  
γράμματα.*





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HONOURS.

Church History.

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FIRST PAPER.

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1. State and discuss the argument of Irenaeus from tradition.

2. Translate and annotate :

(a) προπαρασκευάζει τοῖνυν ἡ φιλοσοφία προοδοποιούσα  
τοῦ ὑπὸ χριστοῦ τελειοῦμενον.

(b) O testimonium animae naturaliter Christianae !

(c) Et quod proxime Valentinus proposuit : unde deus ? Scilicet de enthymesi et ectromate.

(d) Nam et laicis sacerdotalia munera injungunt.

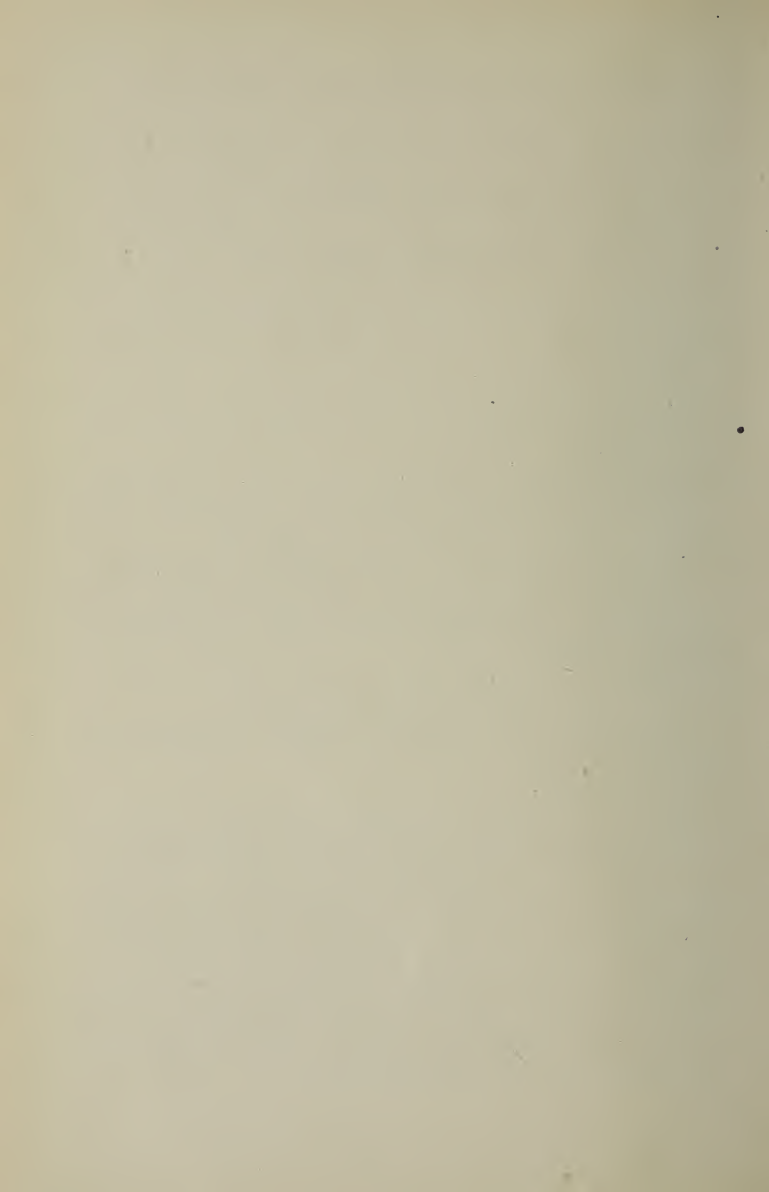
3. Explain the following : Disciplina arcani, pax, praescriptio, libellatici, contessaratio hospitalitatis, ἔξδομας, ἀπάθεια.

4. Discuss Origen's theory of Scripture.

5. Examine the charges brought by Hippolytus against Callistus.

6. Translate :

Denique ut a baptisate ingrediar, aquam adituri, ibidem, sed et aliquanto prius in ecclesiae sub antistitis manu contestamur, nos renuntiare diabolo et pompae et angelis eius. Dehinc ter mergitamur amplius aliquid respondententes quam dominus in evangelio determinavit. Inde suscepti, lactis et mellis concordiam praegustamus, exque ea dle lavraco quotidiano per totam hebdomadem abstinemus. Eucharistiae sacramentum, et in tempore victus et omnibus mandatum a domino, etiam antelucanis coetibus, nec de aliorum manu quam praesidentium sumimus. Oblationes pro defunctis, pro natalitiis, annua die facimus. Die dominico ieiunium nefas ducimus vel geniculis adorare. Eadem immunitate a die Paschae in Pentecosten usque gaudemus. Calicis aut panis etiam nostri aliquid decuti in terram anxie patimur.



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HONOURS.

**History of Dogma.**

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[*Alternative Paper.*]

1. Describe Harnack's historical method.
2. What arguments does Harnack allege for the historicity of the Synoptic Gospels?
3. Translate :

So oft ich die Evangelien wieder lese und überschlage, um so mehr treten mir die zeitgeschichtlichen Spannungen, in denen das Evangelium gestanden hat und aus denen es hervorgetreten ist, zurück. Ich zweifle nicht, dass schon der Stifter den Menschen ins Auge gefasst hat, in welcher äusseren Lage er sich auch immer befinden mochte—den Menschen, der im Grunde stets derselbe bleibt, mag er sich auf einer auf- oder absteigenden Linie bewegen, mag er im Reichtum sitzen oder in Armut, mag er stark oder schwach sein im Geiste. Das ist die Souveränität des Evangeliums, dass es letztlich alle diese Gegensätze unter sich weiss und über ihnen steht; den es sucht in jedem den Punkt auf, der von allen diesen Spannungen nicht betroffen wird. Bei Paulus ist das ganz klar—wie ein König beherrscht er innerlich die irdischen Dinge und Verhältnisse und will sie so beherrscht sehen. Jene These von dem decadenten Zeitalter und der Religion der Elenden mag geeignet sein, in einen äusseren Vorhof einzuführen; sie mag auch richtig auf ursprünglich Formgebendes hinweisen; wenn sie sich aber als Schlüssel für das Verständnis dieser Religion selbst anbietet, ist sie abzulehnen.

4. State and examine Harnack's theory of the miracle-narratives in the Gospels.

5. What is Harnack's view of the Fourth Gospel as an historical source?

6. Translate and annotate :

(1) Sie (Religion) ist kein ethisches oder soziales Arcanum, um alles mögliche zu conservieren oder zu bessern.

(2) Dürfen wir uns nicht anmassen, absolute Werthurtheile als

Ergebnisse einer rein geschichtlich Betrachtung abstrahieren zu können.

(3) Wie fest der Form nach diese (primäre) Ueberlieferung war, das bezeugt uns das dritte Evangelium.

(4) Zu den Essenern, einem merkwürdigen jüdischen Mönchsorden, kann er keine Beziehungen.

7. "Was hat Christus Neues gebracht?" How does Harnack answer this question?

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**History of Dogma.**

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1. Name the leading apologists of the second century and describe their works.
2. Describe the origin of the Arian controversy.
3. How does Athanasius show the necessity of the Incarnation?
4. Explain and criticise the Apollinarian theory.
5. "Truly, perfectly, indivisibly, distinctly: within the compass of which four heads all heresies which touch but the person of Jesus Christ may with great facility be brought to confine themselves." Explain.
6. Briefly sketch the history of the doctrine of the Atonement during the pre-Anselmic period.
7. What are the sources of Anselm's idea of satisfaction?
8. Translate:

Boso.—Haec ipsa liberatio si per aliam quam per Dei personam (sive per angelum sive per hominem) esse facta quolibet modo diceretur, mens humana hoc multo tolerabilius acciperet. Potuit enim Deus hominem aliquem facere sine peccato, non de massa peccatrice, nec de alio homine, sed sicut fecit Adam, per quem hoc ipsum opus fieri potuisse videtur.

ANSELM.—Cum reddis aliquid, quod debes. Deo, etiamsi non peccasti, non debes computare hoc pro debito, quod debes pro peccato. Omnia autem ista debes Deo, quae dicis. Tantis namque debet esse in hac mortali vita amor, et, ad quod pertinet oratio, desiderium perveniendi ad id, ad quod factus es, et dolor, quia nondum ibi es, et timor, ne non pervenias, ut nullam laetitiam sentire debéas, nisi de his, quae tibi aut auxilium aut spem dant perveniendi. Non enim mereris habere, quod non secundum quod est amas et desideras, et de quo, quia nondum habes, et adhuc, utrum habiturus sis an non, in tanto es periculo, non doles.

9. How does Anselm show that man cannot render satisfaction for sin?

10. Does Anselm's theory of satisfaction conflict with the conception of Grace?



HONOURS.

**History of Dogma.**

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FIRST PAPER.

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1. Translate :

Dei honori nequit aliquid, quantum ad illum pertinet, addi vel minui, Idem namque ipse sibi honor est incorruptibilis et nullo modo mutabilis. Verum quando unaquaeque creatura suum et quasi sibi praeceptum ordinem sive naturaliter sive rationabiliter servat, Deo obedire et eum dicitur honorare; et hoc maxime rationalis natura, cui datum est intelligere, quid debeat. Quae cum vult, quod debet, Deum honorat; non quia illi aliquid confert, sed quia sponte se ejus voluntati et dispositioni subdit, et in rerum universitate ordinem suum et ejusdem universitatis pulchritudinem, quantum in ipsa est, servat. Cum vero non vult quod debet, Deum quantum ad illam pertinet, inhonorat; quoniam non subdit se sponte illius dispositioni; et universitatis ordinem et pulchritudinem, quantum in se est, perturbat, licet potestatem aut dignitatem Dei nullatenus laedat aut decoloret.

2. State the presuppositions of Anselm's argument.

3. How does Anselm prove the necessity of an atonement?

4. Translate and annotate :

(a) Deo facimus injuriam et contumeliam cum eum asserimus in uterum mulieris descendisse.

(b) Ira namque Dei non est aliud quam voluntas puniendi.

(c) Sic ergo debet omnis, qui peccat, honorem, quem rapuit Deo, solvere : et haec est satisfactio.

(d) Si enim solvimus, quod debemus, cur oramus ut dimittat?

5. How does Anselm answer the objection that the



atonement involves the suffering of the innocent for the guilty?

6. State Anselm's views on (a) our Lord's exaltation, (b) our Lord's knowledge, (c) the injury wrought by sin on the Divine honour, (d) the voluntariness of the death on the cross.

7. Criticise the Anselmic idea of satisfaction.

HONOURS.

**History of Dogma.**

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SECOND PAPER.

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1. Sketch the Logos-doctrine of Clement of Alexandria.
2. State and criticise Tertullian's Christological speculations.
3. What is Origen's contribution to the doctrine of the Incarnation?
4. Explain the terms: *οὐσία*, *ἐπὶ ὁστάσεις*, *ὁμοούσιος*, *persona*, *substantia*.
5. Characterise the theology of Athanasias.
6. Give some account of the Nestorian heresy.
7. Indicate the *religious* significance of the Arian controversy.
8. Write notes on Theopaschitism, Aphthartodocetism, Monothelitism, Anomoean, Homoean, Sabellian.



HONOURS.

**Church History.**

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SECOND PAPER.

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1. Give some account of Marcion and his teaching.
2. Describe the theory of the Christian life taught by Clement of Alexandria.
3. What were the accusations made against the Christians by the Pagans?
4. Sketch briefly the history of the Church in Rome during the second and third centuries.
5. Discuss the Decian policy toward the Church.
6. Write a brief life of Cyprian, naming his chief works.
7. State and discuss the various theories as to the origin of episcopacy.
8. Sketch the growth of Christianity in the early centuries.



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**English Bible—O.T. Section.**

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GENERAL.

1. Give a brief biography of any two of the following persons :—Samuel, David Jeremiāh, Ezra, Nehemiah.
2. Of what character are the contents of "Genesis."
3. Tell, briefly, in your own words the story of Ruth.
4. Give quotations from the following Psalms : I., VIII., XIX., LI., XC.
5. Where do the following passages occur :—"That he might make thee know that man doth not live by bread only." "Let me die the death of the righteous." "If it seem evil unto you to serve the Lord, choose you this day whom ye will serve." "The stars in the courses fought against Sisera." "Because they came not to the help of the Lord, to the help of the Lord against the mighty." "Thy love to me was wonderful, passing the love of women."
6. What is the tone and character of the Book of Nahum?

SPECIAL.—ISAIAH.

1. Give the main divisions of the Book of Isaiah and indicate, briefly, the contents of each section.
2. Where do the following passages occur : "Mine eyes have seen the King." "The Spirit of the Lord God is upon me because both anointed me." "The bruised reed shall he not break." "Zion shall be redeemed with judgment and her converts with righteousness." "If ye will not believe, surely ye shall not be established."
4. Give in your own words the substance of LII., 13—LIII., 12.
5. Give quotations from XL. which show the special character of this section.



EXAMINATION FOR B.D.

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**The Holy Scriptures—The New Testament.**

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*General.*

1. Sketch the leading ideas of St. Matthew's Gospel.
2. Give the context of the following:
  - (a) For the Son of man is come to seek and to save that which was lost.
  - (b) If Thou art the Christ, tell us plainly?
  - (c) The goodness of God leadeth thee to repentance.
  - (d) He that is spiritual judgeth all things.
  - (e) These all died in faith, not having received the promises.
3. Give some account of St. Paul as a missionary.
4. Briefly analyse *either* 1. Corinthians *or* Galatians.
5. State the leading principles of the Johannine theology.

*Special.*

6. Develop our Lord's teaching about the Kingdom of God.
7. Write notes on the following:
  - (a) He hath Beelzebub.
  - (b) He saith unto her, Talitha cumi.
  - (c) And He charged them, saying: Take heed, beware of the leaven of the Pharisees and the leaven of Herod.
  - (d) The abomination of desolation standing where he ought not.
8. Discuss the teaching of John the Baptist.
9. Narrate the events of Passion week.
10. Discuss the aim and purpose of St. Mark in compiling his gospel.





**Mackie Scholarship.**

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1. Characterize generally the Latin Apologetic.
2. What were the main accusations against the Christians?
3. How does Tertullian answer the charge of Disloyalty to the State?
4. Give some account of the *Octavius* of Minucius Felix.
5. State what you know of the apologetic work of Lactantius.
6. Discuss the relations of the Roman Empire to Christianity in the third century.
7. How far did the apologists succeed in really meeting the arguments of their opponents?



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# MEDICINE.

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FACULTY OF MEDICINE.

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**Physics.**

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1. What is meant by *weight, force, energy, power*?
2. Describe a wave, explaining what is meant by *period, velocity, and wave-length*. What is the relation between these three quantities?
3. Mention two differences between sound waves and light waves. How is the speed of each determined?
4. What is the effect of a convex lens upon light coming from a luminous body at various distances from it? Describe a microscope showing the character of the successive images.
5. What is meant by polarized light? How is the rotation of the plane of polarization measured?
6. Mention the three effects of an electric current and one practical use of each.
7. What is an induced current of electricity? Describe an induction coil and state for what purpose it is used.



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**Junior Anatomy.**

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1. Describe the clavicle.
2. Name the bones of the nasal fossa.
3. Name the muscles attached to the ulna.
4. Name the structures passing through the sphenoidal fissure.
5. Sub-maxillary triangle. Give (*a*) boundaries, (*b*) floor, (*c*) contents.
6. Posterior annular ligament of wrist. Give (*a*) attachments, (*b*) structures (in order) passing beneath it.
7. Give the origin, insertion, and nerve supply of the following :—(*a*) Complexus, (*b*) external pterigoid, (*c*) peroneus longa, (*d*) extensor carpi ulnaris, (*e*) rectus abdominis.





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**Animal Biology**—First Year.

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1. What parts of the adult are derived from the ectoderm? Describe a neurone.

2. Write brief notes on the life history of *trichina spiralis*, *demodex folliculorum*, and *acarus scabiei*.

3. Compare the bones of the leg in man with the corresponding bones in a turtle, pigeon, and horse.

*Physiology.*

1. Describe the elements of mammalian blood. In what two ways may blood pressure be varied?

2. Draw a typical muscle curve and explain how it is obtained.

3. Tell how to prepare glycogen. What is its use? Its test?

4. Specify in a general way the various substances excreted from different parts of the human body.

5. Draw a diagram of a cross-section of the spinal cord. Explain how nerve centres have been located in the cord.

6. Show, by the aid of diagrams, the effect of using (1) a convex, and (2) a concave lens in front of the cornea.



FACULTY OF MEDICINE.

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**Junior Chemistry.**

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1. (a) Write the formulas of orthophosphoric acid, and of the orthophosphates of sodium. (b) Write the formula of calcium hypophosphite, and describe the process for making the substance.

2. From a solution of potassium iodide,

(a) How would you set the iodine free?

(b) How would you separate the iodine from the water?

(c) How would you convert the iodine into hydriodic acid?

(d) Write equations for all the reactions.

(e) Compare the solubility of iodine in water, in alcohol, and in carbon bisulphide.

3. The gas density of sulphur at  $610^{\circ}$  is 4.4. Calculate the molecular weight corresponding to this, and write the molecular formula.

4. (a) What volume in litres of oxygen measured at 470 mm. pressure and  $27^{\circ}$  C. temperature can be obtained from 54 grammes of mercuric oxide? (b) If mercury were a gas under those conditions how would its volume compare with that of the oxygen? [Hg=200, O=16 mol. wt. of mercury=200.]

5. Describe cases in which the following substances act as oxidising agents and write the equations:—(a) Nitric acid, (b) sulphuric acid, (c) saltpetre, (d) potassium chlorate, and (e) water.

6. An oxide of tin contains 78.7% of tin. The specific

heat of tin is  $\cdot 054$ . Calculate (a) its equivalent weight, (b) its approximate atomic weight, (c) its accurate atomic weight, and (d) the formula of the oxide.

7. Define *neutral salt*, *normal salt*, and *basic salt*. (b) In what two senses is *acid salt* used? (c) Give examples (formulas and names) of each kind of salt mentioned.

8. We say that salt dissolves in water and that zinc dissolves in dilute sulphuric acid. (a) Point out the essential differences in the two cases. (b) Mention other cases like that of the salt. (c) Mention other cases like that of the zinc.

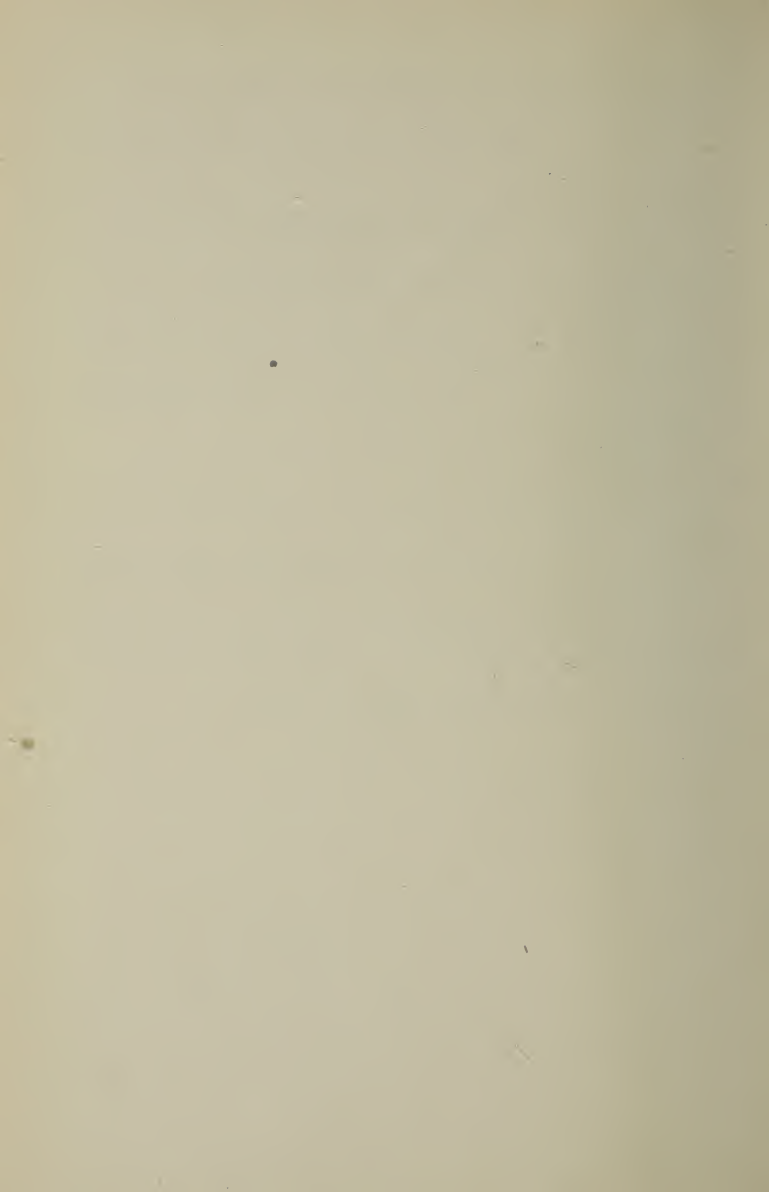
FACULTY OF MEDICINE.

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**Senior Anatomy.**

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1. Describe a lateral mass of the ethmoid.
2. Name in some order the structures in (a) the cavernous sinus, (b) sphenoidal fissure, (c) orbit.
3. Give the course and distribution of (a) glosso-pharyngeal nerve, (b) occipital artery.
4. Describe the right auricle of the heart.
5. The diaphragm. Give (a) origin, (b) insertion, (c) nerve supply, (d) blood supply.
6. Describe the duodenum, giving its relations and blood supply.
7. Describe the ischio-rectal fossa, giving its boundaries and contents.
8. Outline the brachial plexus of nerves.



FACULTY OF MEDICINE.

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**Junior Materia Medica.**

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1. What influence has alcohol upon digestion, body heat, and metabolism?

2. What conditions would determine you in the selection of chloroform as an anæsthetic? What is the condition of the patient in the operating stage? What are some of the indications of danger? And how overcome?

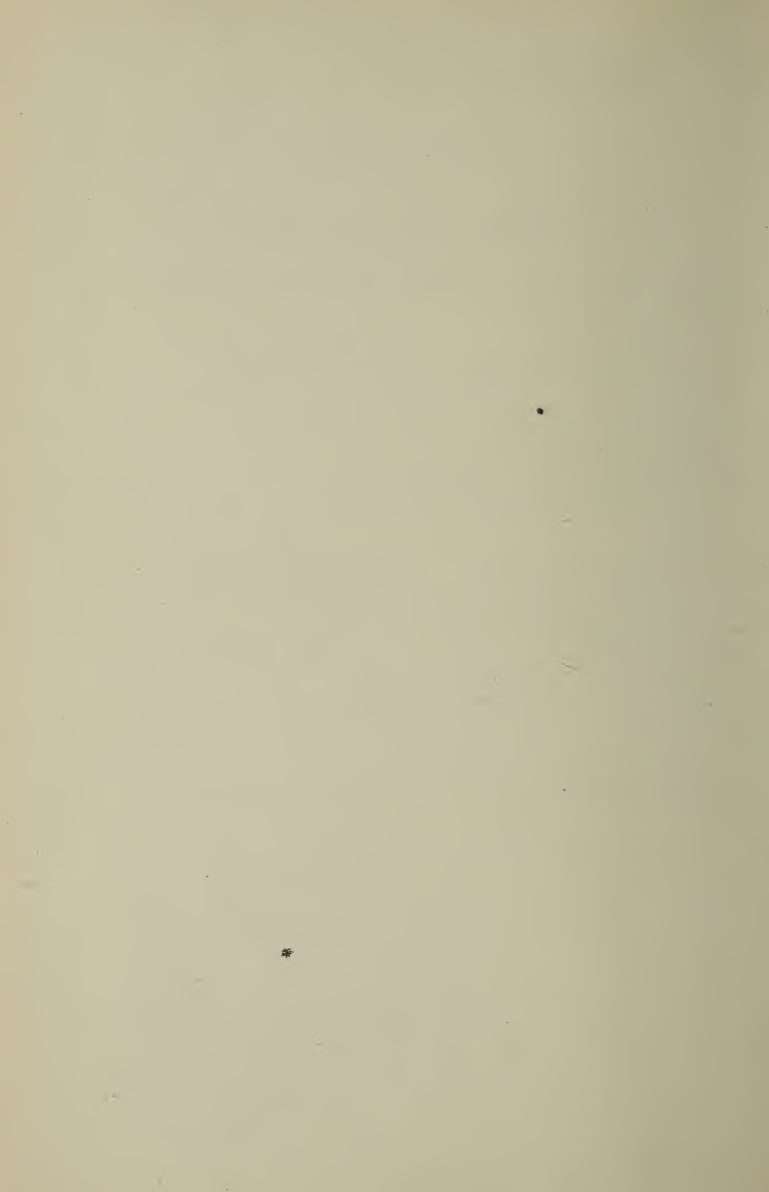
3. Distinguish between gastric tonic and gastric stimulant. Give examples. What are the indications for each?

4. How do saline cathartics influence the system? Name three. When are they best given? What are the indications for their use?

5. Explain cumulative action, physiological action, remote action, stimulant action, and depressant action.

6. How would you prepare tincture of gentian, infusion of quassia, liquid extract of nux vomica? Give the dose of each.





FACULTY OF MEDICINE.

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**Senior Physiology.**

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1. Write notes on the origin, numbers, and fate of red blood cells. How has their function been demonstrated?
2. Describe the plethysmograph, and state what has been learned by its use.
3. Explain how the quality of the blood supplied by the respiratory system affects the vascular system.
4. Where is heat generated in the body? Where lost? Give proofs.
5. Specify the immediate effects of (*a*) hemisection, and (*b*) transection of the cord in the mid-dorsal region.
6. What are the functions of the cerebellum? How do we know that its fibres are related to the cerebrum and to the cord?
7. Discuss the question of motor areas being sensory areas also.
8. Describe the neuro-epithelium of the nose and the development of olfactory sensations.



FACULTY OF MEDICINE.

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**Histology,**

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1. Describe a transverse section of compact bone.
2. Describe the mucous membrane of the tongue. The structure of the soft palate.
3. What is characteristic of the *duodenum*, of the *trachea*, and of the *bladder*?
4. Make a drawing of the retina; describe its layers, and interpret them in accordance with the neurone theory.
5. Draw, describe, and identify the specimens submitted.



FACULTY OF MEDICINE.

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Senior Chemistry.

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1. (a) Define *mixed ether*, *triatomic alcohol*, *isocyanide*, *sulphonic acid*, *tertiary amine*, and *acid amide*. (b) Give name and formula of an example of each.

2. An organic acid has the empirical formula  $C_6H_8O_7$ . It reacts with caustic soda in three, and only three, different proportions. The empirical formula of the compound formed with the highest proportion of caustic soda is  $C_6H_5Na_3O_7$ . Write the formulas of the other two sodium salts and deduce the basicity and the probable molecular weight of the acid.

3. (a) Show by examples the relations between alcohols, ethers, and esters. (b) Describe three general methods for making ethers, and write the equations. (c) How is amyl nitrite made and what are its properties?

4. (a) Define *ketones*, and write formulas and names of three examples. (b) What class of compounds is formed by the action of mercaptans on ketones? Give an example. (c) Write a graphic formula for *sulphonal* and indicate by formulas the steps in its manufacture.

5. (a) Indicate the differences in properties between the hydroxyl compounds of the paraffin series and those of the benzene series. (b) Describe the action of strong hot sulphuric acid on ethyl alcohol and on phenol respectively, naming the products in each case.

6. Write constitutional formulas for the following:

*naphthalene, naphthol, salol (phenyl salicylate), nitro-glycerine, phenacetine, and acetanilide.*

7. Indicate by formulas and equations how it is possible to convert (a) acetic acid into ethyl alcohol, and (b) ethyl alcohol into propionic acid.

8. (a) How can ethane be made from propionic acid? Equation. (b) Benzene from benzoic acid? Equation.

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FACULTY OF MEDICINE.

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**Senior Materia Medica, Pharmacy and  
Therapeutics.**

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1. (a) How would you prepare tincture of opium? (b) What is the dose of morphine sulphate? (c) What is the relative quantity of morphine in powdered opium, laudanum, and paregoric?

2. Why do we give digitalis in weak, irregular heart, mercury in syphilis, and iron in convalescence?

3. What conditions of the genito-urinary tract call for the use of ammonium benzoate tincture of buchu, potassium nitrate and ferrum?

4. How do atropine, hyoscyne and trionol influence the brain?

5. Give the therapeutics of salol, calomel, podophyllin, sodium sulphate and aspidium.

6. Write a prescription containing iron and arsenic (a) in form of solution, (b) in pill form.

7. Criticise :

R	Quinine sulphate . . . . .	dr. iv.
	Acid nitromuriatic dilute . . . . .	dr. ii.
	Sodium salicylate . . . . .	dr. iv.
	Potassium acetate . . . . .	dr. ii.
	Syrup of ginger . . . . .	oz. i.
	Water to . . . . .	oz. vi.

Mix.

Write : Two teaspoonfuls three times a day.





FACULTY OF MEDICINE.

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**Junior Practice of Medicine.**

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1. What is vocal fremitus? Discuss its value as a diagnostic sign.
2. Give the diagnosis and treatment of chlorosis.
3. Describe the onset and physical signs of acute lobar pneumonia.
4. Outline the treatment of valvular lesions (*a*) during the stage of compensation, (*b*) during the stage of broken compensation.
5. Give the etiology, symptoms, and treatment of exophthalmic goitre.



FACULTY OF MEDICINE.

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**Junior Surgery.**

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1. Explain the migration theory. What is it based on?  
What is phagocytosis, and what are its effects?.....10
2. Define ankylosis, lordosis, necrosis, and phimosis....7
3. What are the laws of Colles, and of Profeta?.....10
4. How would you treat the condition called a felon  
and state why you would do so?.....10
5. What are natural hæmostatics? What would assist  
or retard their action?.....8
6. Name in one or two words, and in regular order,  
the processes you would employ to secure ordinary  
union of a severe incised wound at its first dressing.....10
7. Name two most common varieties of fistula. State  
the cause and best mode of treatment.....15
8. Contrast scirrhus and fibrous tumor as to site, sex,  
clinical history, effects, duration, termination and cure ....17
9. In estimating the gravity of shock what conditions  
would influence your opinion unfavourably?.....14



FACULTY OF MEDICINE.

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**Senior Medical and Surgical Anatomy.**

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(Questions of equal value.)

1. What deformity may result in (a) fracture of humerus immediately above condyles, (b) fracture of femur immediately below lesser trochanter?
2. Illustrate by means of a diagram the outline of heart, marking the situation of the valves also.
3. (a) Give briefly the course of the different sets of lymphatics from the mammary gland. (b) What structures are divided in the oblique incision for appendicitis?
4. A patient presents a tumor of the epigastric region of abdomen. What structures may be involved?
5. Make a diagram showing (a) situation of the ascending frontal and ascending parietal convolutions, (b) longitudinal, lateral, and sigmoid sinuses; (c) course of laterior division middle meningeal artery, marking the usual point for trephining for injury of the latter vessel.



FACULTY OF MEDICINE.

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**Junior Obstetrics and Pediatrics.**

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1. Give the relations of the uterus and describe the ligaments which support it.
2. What derangements of function commonly result from the mechanical effects of a gravid uterus?
3. Discuss the causes and the prevention of laceration of the perineum during labour.
4. What measures would you employ to prevent, to alleviate, and to cure sore nipples?
5. Contrast cow's milk with human milk as a food for infants.
6. Discuss the cause, the clinical course, and the treatment of acute summer diarrhoea (cholera infantum).





FACULTY OF MEDICINE.

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**Junior Medical and Surgical Anatomy.**

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(Questions of equal value.)

1. Ligate (*a*) the femoral artery in Hunter's Canal, (*b*) third part of axillary artery. What objections are there to ligating the first part of the latter vessel?

2. (*a*) Actions of the following muscles: Infrapinatus, supinator longus, extensor communis digitorum, lumbricals, psoas, gluteus maximus, tibialis posticus. (*b*) What deformity may result from muscular action in fracture of the middle of the femur?

3. (*a*) What is the position assumed by the limbs in dislocation of the femur at the hip joint (dorsum ilii)? (*b*) Describe by means of a diagram the arrangement of the lamellae in the head of the femur. (*c*) Explain eversion of the foot in fracture of the neck of the femur.

4. (*a*) Coverings of femoral hernia. (*b*) Landmarks for bicipital groove, division of brachial artery, lines (upper and lower) of wrist joint, spine of ischium, division of popliteal artery.



FACULTY OF MEDICINE.

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**Medical Jurisprudence.**

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(N.B.—Answer five questions only.)

1. Outline the usual changes noted in a body from time of death till the end of 7 days, the temperature averaging 70° F.

2. The body of an infant evidently dead but a short time is found. What facts would lead you to certify to the maturity and viability of the child and that it had been born alive?

3. Poisoning by Paris green. Describe the usual symptoms noted, the probable fatal period, and the post-mortem evidences in a fatal case. Outline your treatment if called to a case.

4. Asphyxiation by illuminating gas. Describe the usual symptoms presented where there is a considerable escape of this gas into a room; the method of action of the poisonous principles in the gas; the means of detection in the body, and the general post-mortem evidences.

5. Poisoning by belladonna. Mention the common preparations in which it may be taken and their toxic doses. Describe the usual symptoms noted and the probable fatal period. Treat such a case.

6. (a) Differentiate between an incised wound inflicted two hours before death and one made immediately after death.

(b) Describe the usual characters and tests for seminal stains.



*Queen's University Examinations: March, 1902.*

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FACULTY OF MEDICINE.

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**Pathology**—Third Year.

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(N.B.—Answer five questions only.)

1. What are the distinguishing characteristics of Sarcomas? Classify these growths and describe any one variety in detail.

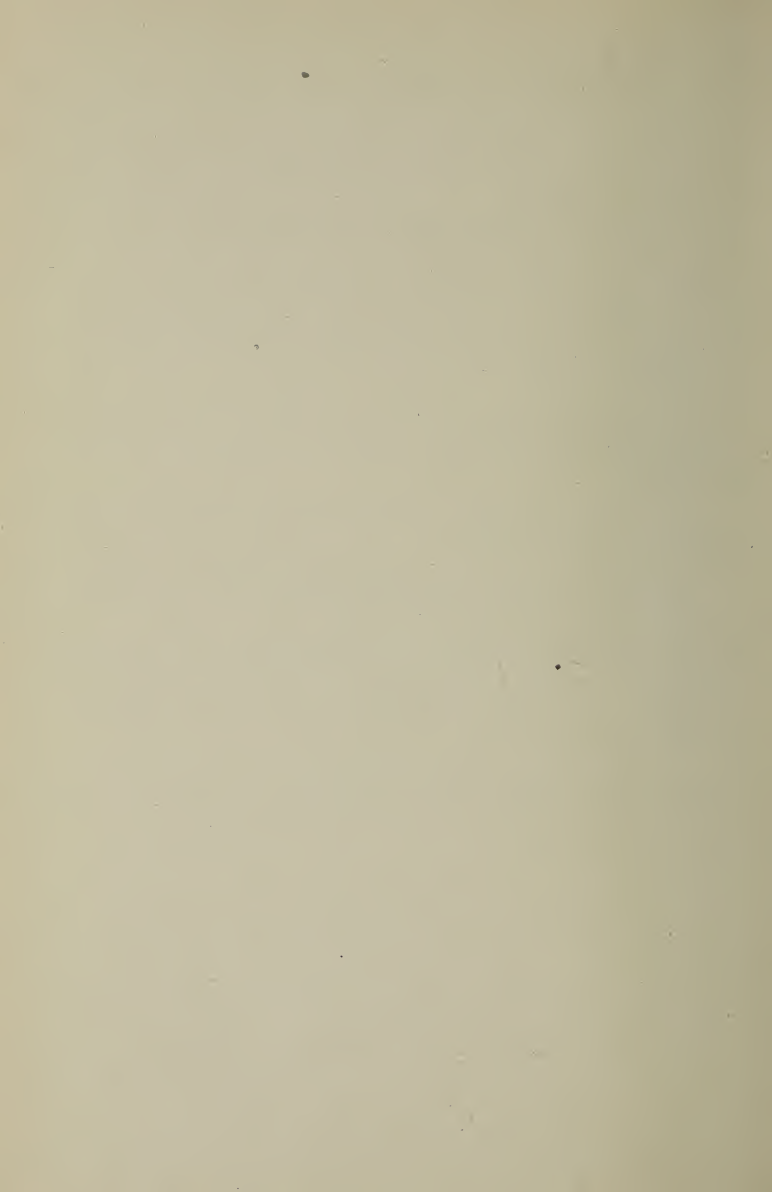
2. Describe the causes and phenomena of an acute inflammation terminating in resolution. Illustrate by specific example.

3. What are cysts? Classify them and describe the Dermoid cyst in detail.

4. Describe the causes, seats, lesions, and results of atheroma or endarteritis deformans.

5. Differentiate hypertrophy from hyperplasia and from tumor formation. Mention the commonest causes of hypertrophy of the left ventricle of the heart, describing their method of action.

6. Describe the characteristic features of the lesions of the “primary” and “tertiary” stages of syphilis.



FACULTY OF MEDICINE.

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**Senior Practice of Medicine.**

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1. Describe the various modes of onset of chronic pulmonary tuberculosis, and briefly outline the "Home" treatment of this affection.....15
2. Describe the symptoms and signs of aortic insufficiency, the method of compensation, the prognosis and the general management of a case.....15
3. On percussion of the right chest dulness is elicited up to the level of the nipple. Discuss the diagnosis...15
4. What is hyperchlorhydria? Give symptoms and treatment.....10
5. Diagnose and treat (a) erythema nodosum, (b) acne vulgaris, (c) tinea tonsurans.....15
6. Contrast the symptoms resulting from destructive lesions of the upper and the lower motor neurones. Enumerate the affections of the peripheral neurone.....15
6. Give the etiology of multiple cerebro-spinal sclerosis. Describe briefly (a) the anatomic alterations, (b) the typical symptoms.....15





FACULTY OF MEDICINE.

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**Senior Surgery.**

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(Answer any six questions, but the six selected must not include more than two cases. All questions of equal value.)

1. Diagnose senile gangrene. Mention predisposing causes and exciting and treatment.

2. Sketch briefly sarcoma. Name varieties. Give its duration. Compare it generally with carcinoma as to virulence, termination, treatment, and results of treatment.

3. Compare sapræmia or septic intoxication—septicæmia pure and pyæmia—as to cause, onset, prognosis, and morbid anatomy.

4. Where is the stricture usually found in strangulated femoral hernia? Give the exact anatomy of the site, and note any possible risks in dividing the stricture.

5. Explain origin and give treatment for housemaid's knee.

6. Briefly, but in order, describe repair of simple fracture of bone. Name the two most essential means to ensure success.

7. State your mode of examining the rectum. Name the diseases you may find. Select a common one and give treatment.

8. *Case 1.*—A young woman (25 years) in apparent good health, menses regular, suddenly vomits quantity of bright red blood. Examination shows no pulse nor temperature; stomach is distended with flatus, tender in some

limited portion but not marked ; appetite fair ; no cough ; burning sensation in stomach after eating, tendency to nausea ; sometimes much thirst. It may be the first appearance of blood or may have had previous attacks. Haemorrhage may have been profuse or mixed with food. —Give diagnosis. In doing so enumerate all causes of haematemesis, state any peculiar to each and of value in diagnosing them.

9. *Case 2.*—An elderly man has large, raw, ulcerated surface on the side of the face ; easily bleeds, will not heal, has had it some years ; began as small sore at right ala of nose. Diagnose it and explain reason and mention treatment.

10. *Case 3.*—A man in a fight struck on the head with pointed large blade of a penknife, complains of pain after rallying from being stunned, but is able to go about and talk as usual. After a few hours complains of dullness ; heavy, drowsy stupor increases, has to lie down and becomes unconscious ; has signs of deep coma. What would be your diagnosis and treatment, giving reasons for opinion.

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FACULTY OF MEDICINE.

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**Senior Obstetrics and Gynaecology.**

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1. Name the causes of *face presentation*. Describe the mechanism of *right mento-posterior* position. Under what circumstances will the mechanism stop and completion of delivery become mechanically impossible?.....14

2. What are the symptoms of *pregnancy albumenuria*? During the progress of this condition what serious complication may suddenly arise? Point out the symptoms indicative that such complication is imminent.....14

3. Name the cases in which it is proper to induce premature labour. Describe briefly the best method when the operation is performed to save the child and speed is not demanded.....14

4. Enumerate the dangers to mother and child in a *simple flattened pelvis* with moderate contraction of the conjugate diameter of the brim (vertex presentation). Under what circumstances would podalic version be preferable to forceps in the delivery of the child? Explain your reasons for the choice.....16

5. Define *menorrhagia* and *metrorrhagia*. Name only the diseases in which they are characteristic symptoms...13

6. Classify as to locality the *benign tumors of the uterus*. Name the alterations and degenerations which may occur in them.....14

7. Describe very briefly the symptoms of *acute purulent* (gonorrhœal) *vaginitis*. What other organs or structures may become involved owing to spread of the infection?...15



FACULTY OF MEDICINE.

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**Diseases of the Eye, Ear, Nose, and Throat.**

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1. Describe laryngoscopy and state what can be seen by this method of examination.
2. How would you differentiate between anaemia and hyperaemia of the internal ear? Give the causes of these two conditions.
3. Describe the simple extraction operation for cataract.
4. What diseases of the nose and throat produce affections of the ear? Explain what happens in each case.
5. Define the following terms: Myringitis, Othaematoma, Symblepharon, Amaurosis, Diplopia, Epiphora, Nebula, Macula, Leucoma, Nystagmus.



FACULTY OF MEDICINE.

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**Senior Pathology.**

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(N.B.—Answer five questions only.)

1. Describe the causes, the gross and microscopic features of the lung in the various stages of acute (lobar) pneumonia. Mention its possible terminations.

2. Describe the usual blood changes noted in a case of pernicious anæmia. What features would lead you to make a post-mortem diagnosis of this condition?

3. Describe the intestinal lesions of typhoid fever. What lesions are commonly met with elsewhere in a fatal case of this disease (uncomplicated)?

4. What is the composition of the common forms of vesical calculus? Mention the possible effects of calculi on the bladder.

5. Describe the causes, usual seats and effects of the common form of hæmorrhage into cerebrum. What lesions of other organs are usually presented in such cases? In non-fatal cases what changes occur in the hæmorrhagic area?

6. What forms of kidney may be met with post-mortem which have given a previous clinical history of chronic interstitial nephritis? Describe the gross and microscopic characters of the common variety.





FACULTY OF MEDICINE.

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**Sanitary Science.**

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1. (a) What amounts of water and of water free food stuffs are necessary for an ordinary adult doing an average day's work?

(b) How may the food value of an article be determined?

(c) To what common adulteration is milk liable and how would you determine the presence of such?

2. (a) Collect samples of water from a well and describe shortly the examination you would subject them to, to determine the value of such for household use.

(b) What are the common sources of contamination of well water in this country? Are such sources avoidable?

3. (a) Smallpox breaks out in one family in a community. What steps would you advise to control the further spread of the disease?

(b) Diphtheria develops in several school children. Stop the further spread of the infection.

(c) Several cases of malaria are imported in summer into a low lying district. What measures if any would you advise to be taken?

4. Describe freely how you would disinfect (a) a room and its contents after diphtheria, (b) sputum, (c) urine, (d) faeces.

5. Describe (a) the life cycle of the trichina spirales and its import to man, (b) the means of infection in typhoid fever, (c) the modes of spread of the bubonic plague.











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